



BEAR[®]

1968 COMPLETE LINE

PROFIT GUIDE



WHEEL ALINEMENT

WHEEL BALANCING

BODY-FRAME & BRAKE REPAIR

SAFETY INSPECTION EQUIPMENT

DIAGNOSTIC PERFORMANCE

AND SAFETY SERVICES

®

BEAR MANUFACTURING CO., ROCK ISLAND, ILLINOIS 61201

1968 Complete Line Catalog and Profit Guide

Contents

| | Pages |
|--|-----------|
| Electronic Wheel Alinement | 2 - 8 |
| Power Rack with Telaliner | 3 - 4 |
| Telaliner and Rack Services | 9 |
| Mechanical Wheel Alinement Services | 10 - 13 |
| Heavy Duty Alinement-Frame Services | 14 - 17 |
| Axle Correction Services | 18 - 19 |
| Flash-O-Matic® and Merchandising Services | 20 - 21 |
| Wheel Balancers | 22 - 23 |
| Body-Frame Straightening Equipment | 24 - 27 |
| Body-Frame Attachments and Gauges | 28 - 29 |
| Check-O-Matic® and Tel-A-Matic® Simplified Systems | 30 - 31 |
| Portable Wheel Alinement | 32 - 35 |
| New Dyn-A-Lyzer | 35A - 35B |
| Diagnostic Lanes | 36 - 39 |
| Special Diagnostic Lift | 39A - 39B |
| Diagnostic Equipment | 40 |
| Dynamometer-Autorol, Autorol/Brakerol, Trukrol | 41 - 45 |
| Brake Service Equipment and Tools | 46 - 59 |
| Approved P.M.V.I. Safety Equipment | 60 - 62 |
| Tools and Gauges | 63 - 65 |
| Advertising and Training - Bear Extras | 66 - 70 |

POLICIES

WARRANTY — All Bear Equipment is warranted for one full year from the date of invoice against defects in workmanship and material. Labor will be charged at the rate of \$7.50 per hour plus mileage for emergency trips after the first 90 days of the warranty.

Any Bear product component claimed defective during warranty period must be returned to the factory for inspection, transportation charges prepaid, and if found defective, it will be replaced free of charge and returned transportation charges collect.

Guarantee is void if equipment has been subject to neglect, misuse, lack of proper lubrication, careless operation, faulty or deficient electrical service, or if alterations or repairs have been made by other than an authorized representative, exclusive of normal maintenance.

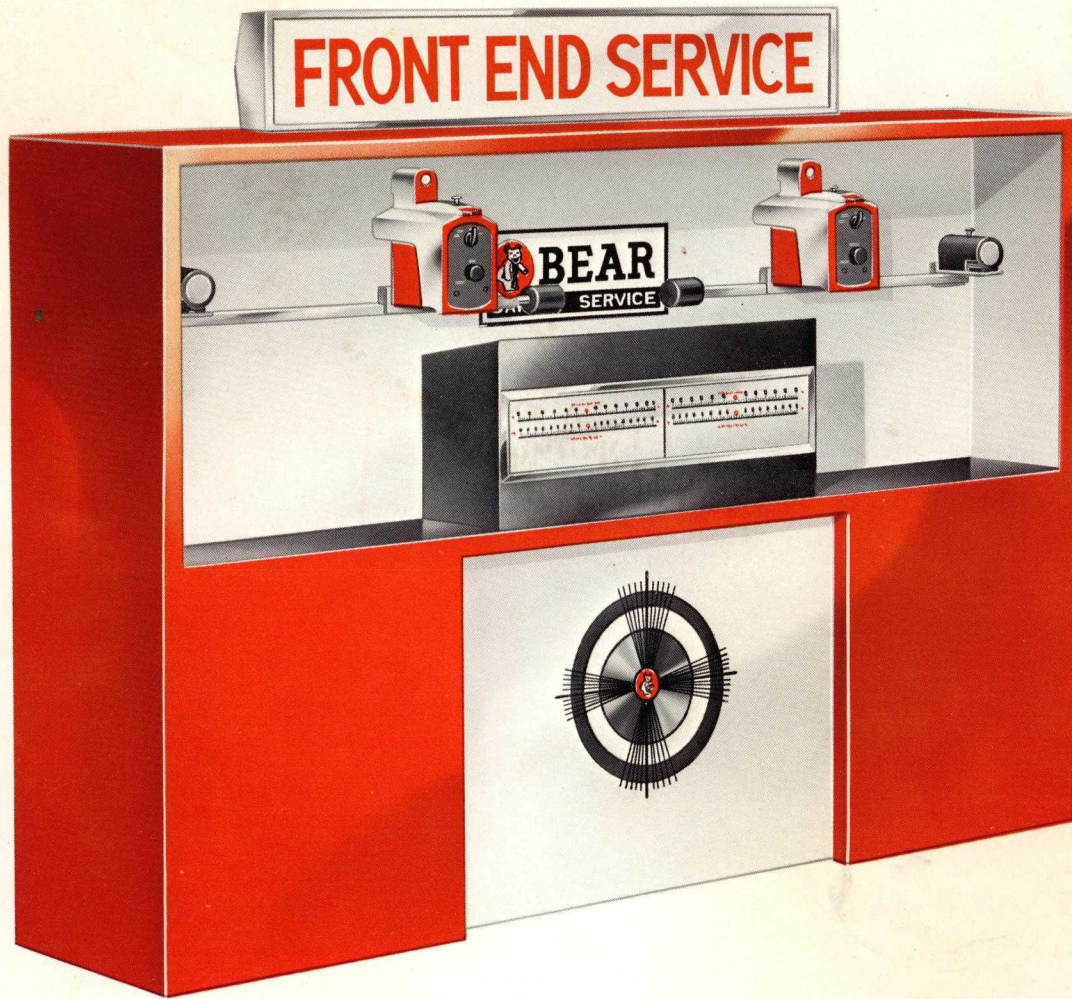
ORDER and PRICE — All prices and specifications are subject to change without notice. The company reserves the privilege of altering its equipment, both as to price and/or specifications, without incurring the responsibility of making such alterations available to previous purchasers.

All orders are subject to approval of the Rock Island office and no terms, representations, etc., shall be binding upon the company unless specified on the bona fide order accepted by the company.

SERVICE and INSTRUCTIONS — The Bear Manufacturing Company field organization provides fundamental instructions in the use of new Bear Equipment Services without charge. This includes inspection of the installation, calibration, and instructing the operator in the correct use of the equipment. Complete training at the Bear school is recommended when operators have had no previous experience. Additional instructions and service will be provided at a service charge of \$7.50 per hour, minimum \$7.50, and mileage will be charged for emergency trips.

FREIGHT ALLOWED as indicated on price lists.

TELALINER SERVICES



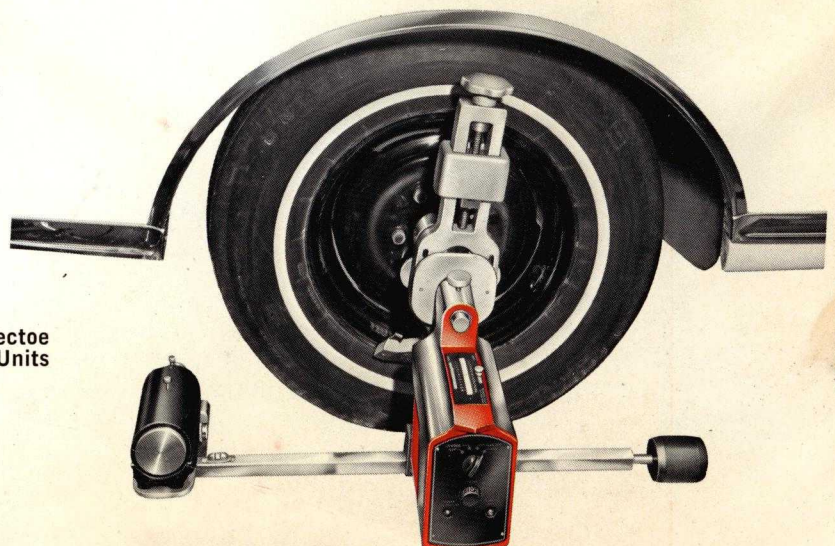
640 ECONOMY MODEL TELALINER — You get the same display as the deluxe Telaliner with single view screen savings in a slightly smaller merchandising background cabinet. The new Projectoe "electronic eye" used in conjunction with regular Telaliner wheel units gives precise center point steering and toe measurements.

Over-all size is: Height 64", Width 82¼", Depth 20¼" including illuminated sign. 56" Height less sign.

Model 640 can be used with any rack service.

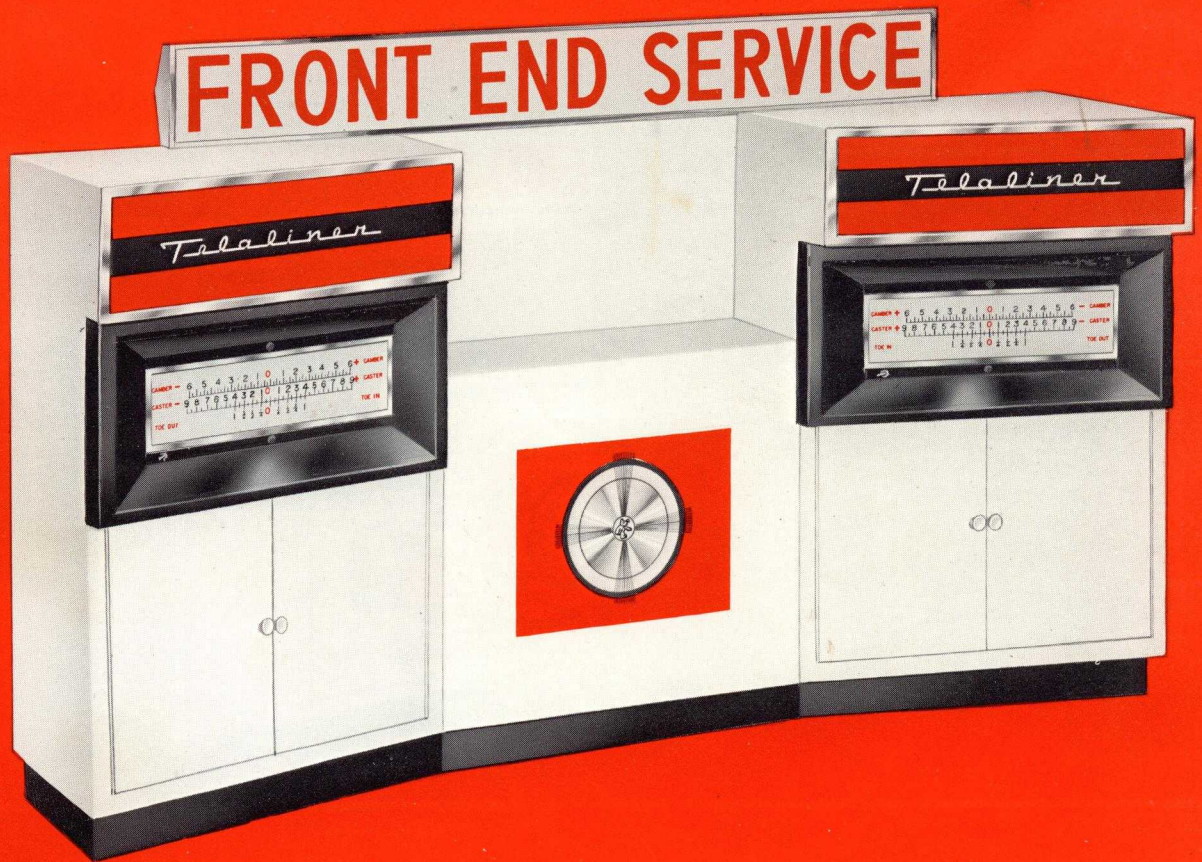
Service includes background cabinet, single view screen, rim clamps, right and left wheel units, Projectoe fixtures, cable connections and two cable guards. Electric Front-End Service sign is optional.

Shipping Weight 570 lbs.



Telaliner Projectoe
Wheel Units

no. **1** in electronic wheel alinement



the incomparable 630 **TELALINER**[®] DeLuxe

With Wide Angle View Screens

New accuracy, new design, new convenience, new brilliance and a BIG NEW SIZE has a bright, interior illuminated FRONT END SERVICE sign. Brilliant split screens can be easily read in direct sun light. Checks caster, camber, toe-in, and center point steering electro-magnetically. Readings are picked up by wheel units and transmitted by cable to the big Telaliner View Screens. Merchandiser Cabinet is heavy gauge mill-Bonderized steel with high-temperature baked-on, gleaming white, red

and black synthetic enamel. Doors are box reinforced with generous size handles and heavy polished extruded aluminum trim.

Service includes:

634 Telaliner View Screens and 617 Merchandiser Cabinet, right and left wheel units, toe-check fixtures and cable connections to Telaliner View Screens with two cable guards.

Overall Dimensions: Width 106", Height 69", Depth 30".

Shipping Weight 670 lbs.

the all new BE SPLIT-SCREEN the WORLD'S

630 or 640-163 SERVICE

Ramps on the 163 Power Rack raise and lower by air power to conserve space. Right roller type runway adjustable to handle all tread widths 40" to 64" — open center "Slide-Away" Beam offers full working convenience. 630-163 Service includes:

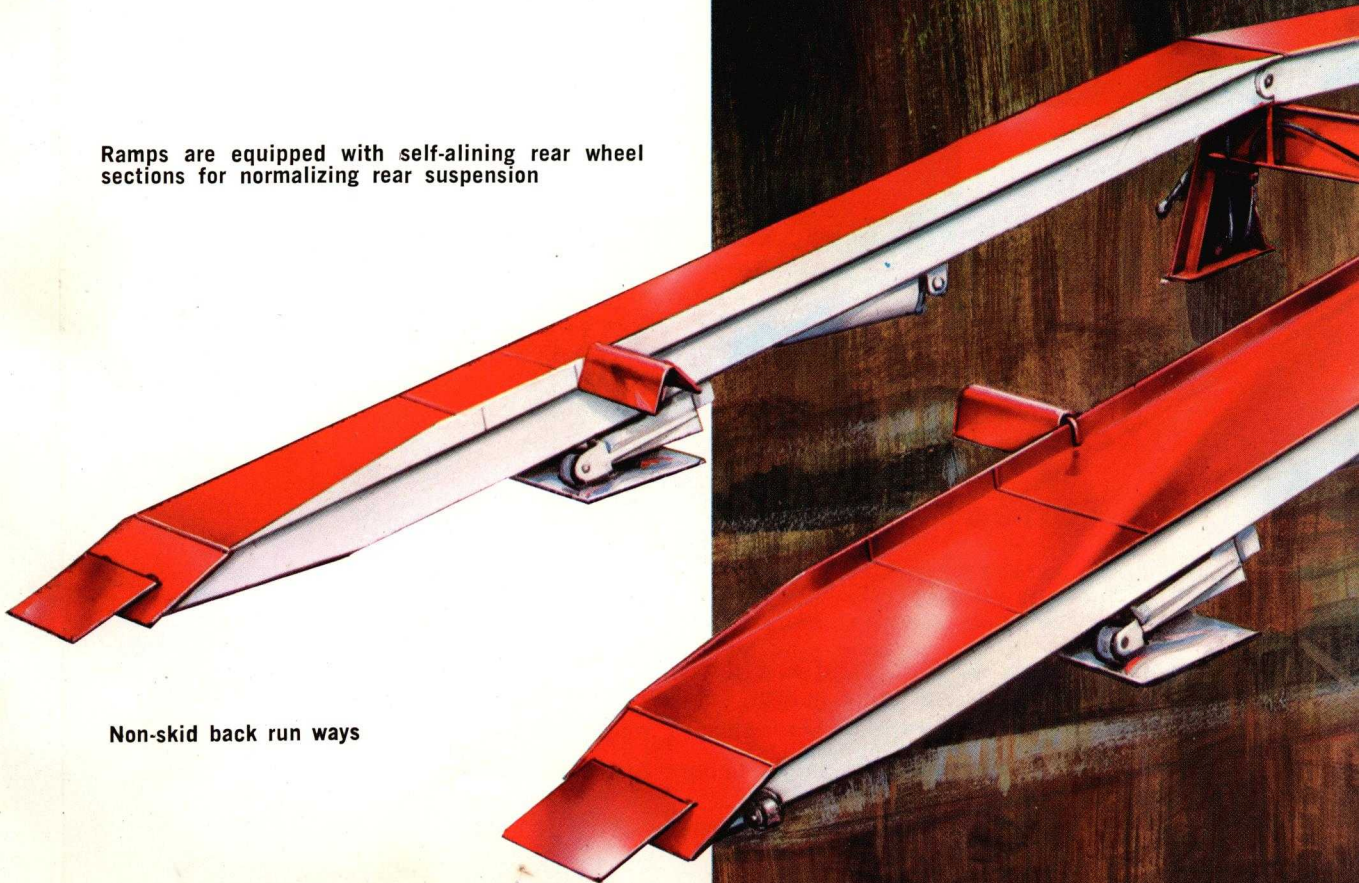
| No. | Part Name |
|-------------|---------------------------|
| 163 | Power Rack |
| 630 or 640 | Telaliner |
| 630-20005 | Tel-A-Matic Templates |
| 68 | Torsion Bar Height Gauge |
| AJ2 | Air Jacks (2) |
| 19609 | Jack Adapters (2) |
| 44 | Turning Radius Gauges (2) |
| 8 | Pedal Depressor |
| 17 | Steering Wheel Holder |
| 50 | Tracking Gauge |
| X334 | Hubcap Tool |
| 8222 | Alinement Wrench Set |
| 8214 & 8215 | Tie Rod Tools |
| 8225 & 8226 | Tie Rod Tools |
| 17892 | Shim Assortment |
| 22940 | Ford-Mercury Tool |

Shipping Weight 2,040 lbs.

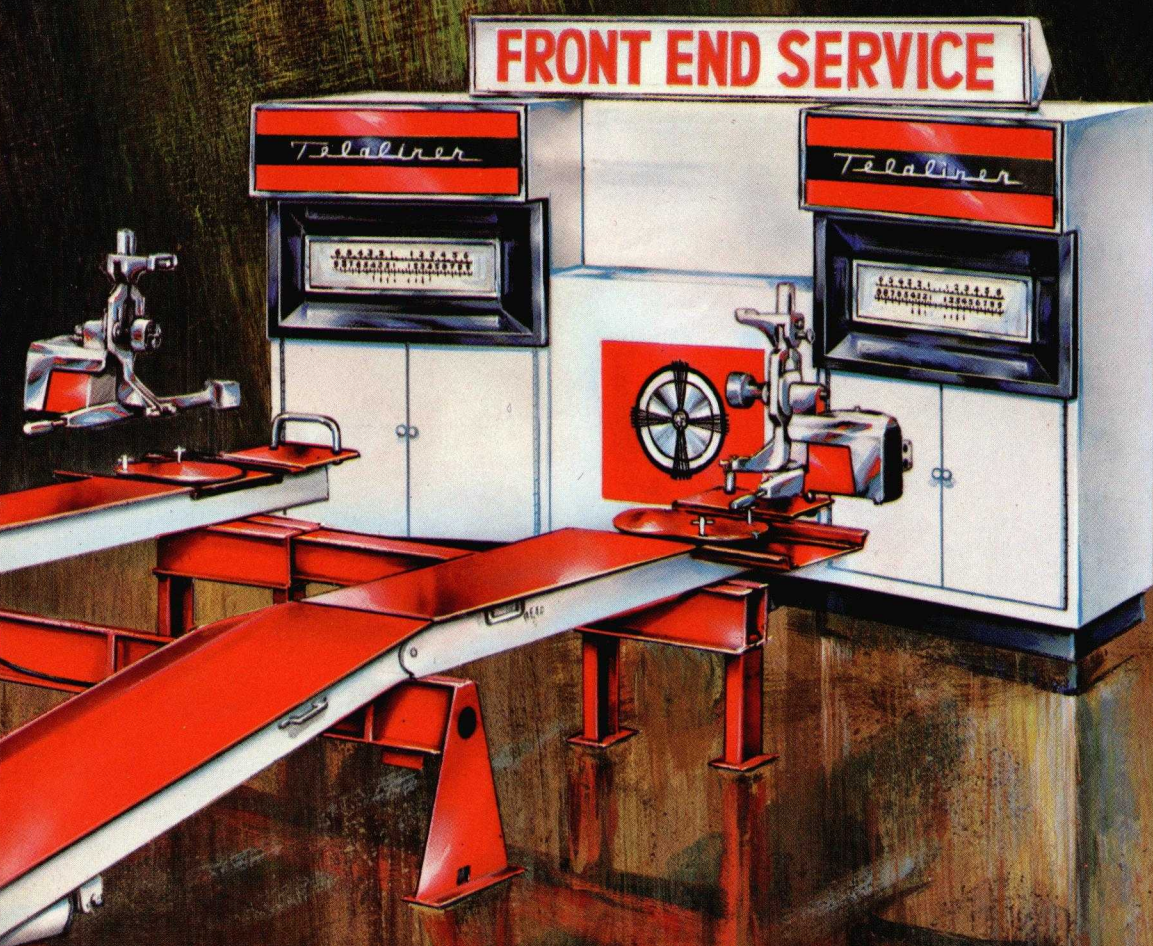
If solid beam is desired, specify 630-163S. Minimum space required (not recommended) 10' wide by 23' long. Recommended floor space 14' wide by 28' long.

Ramps are equipped with self-aligning rear wheel sections for normalizing rear suspension

Non-skid back run ways



AR POWER-MATIC *and* N TELALINER S FINEST ALINEMENT SERVICE



- Ends the space problem . . . gets the car up for speedy under-car services.
- Retractable ramps increase your service range . . . Frees one, two, three or all four wheels from the rack at one time with support stands!
- Handles all cars . . . Largest to the smallest!
- Simple controls safely regulate speed of ascent or descent!
- Extra rugged construction . . . No maintenance problems!
- Fits easily in space only 13' by 26' allowing ample work room!

SPACE AGE, SPLIT-SCREEN ACCURACY



633 PORTABLE TELALINER® — The best looking merchandiser, most accurate, easiest to use "roll away" unit available. Same split screen convenience, Telstar action as DeLuxe unit . . . same electric Front End Service sign display. Over-all measurements are Length 64¼", Depth 20", Height 52".

Service includes base cabinet with ample storage space on 3" casters, 634 Telaliner View Screens, right and left wheel units, toe check fixture and 2 cable connections with cable guards.



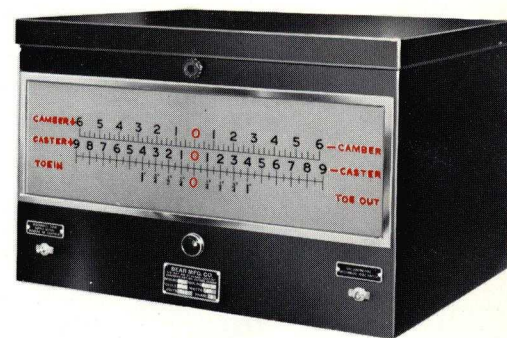
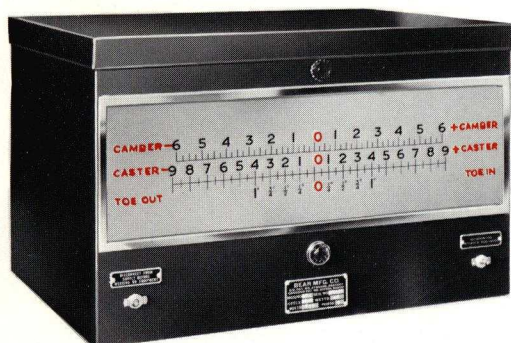
634 TELALINER SPLIT SCREENS — May be used as bench or shelf model. Service includes: 634 Telaliner View Screens, right and left wheel units, toe check fixture, and cable connections to view screens with two cable guards.

Shipping Weight 220 lbs.

Model 644 with Projectoe and single screen operation is also available for extremely compact and reduced budget requirements.

Shipping weight is 180 lbs.

SPACE AGE, SPLIT-SCREEN ACCURACY



631 SUSPENDED SPLIT-SCREENS

Model 631 "suspended" split-screens are ideal for Diagnostic Lane operation. Overhead location allows perfect visibility, more work room and easier traffic flow. 631 service includes two 634 view screens, mounting fixtures, right and left wheel units, toe check fixture and cable connections.



632 ROLLWAY SERVICE

A portable, "star bright" big screen unit for each wheel that moves into perfect work position easily or completely out of the way when not in use.

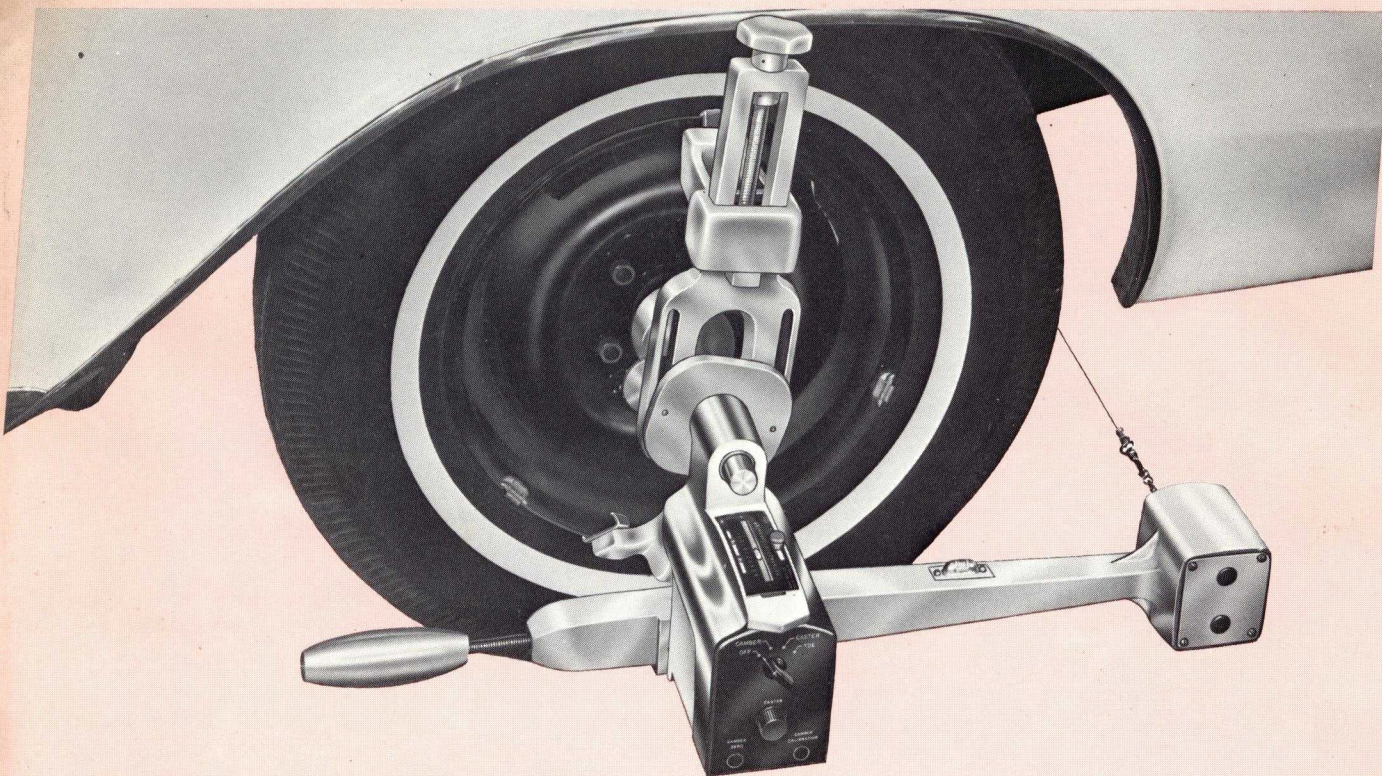
If you are cramped for space, if your budget is low . . . yet you want satellite showmanship and precision . . . here it is. Ideal for any floor or floor rack type in-

stallation . . . perfect for your diagnostic department planning.

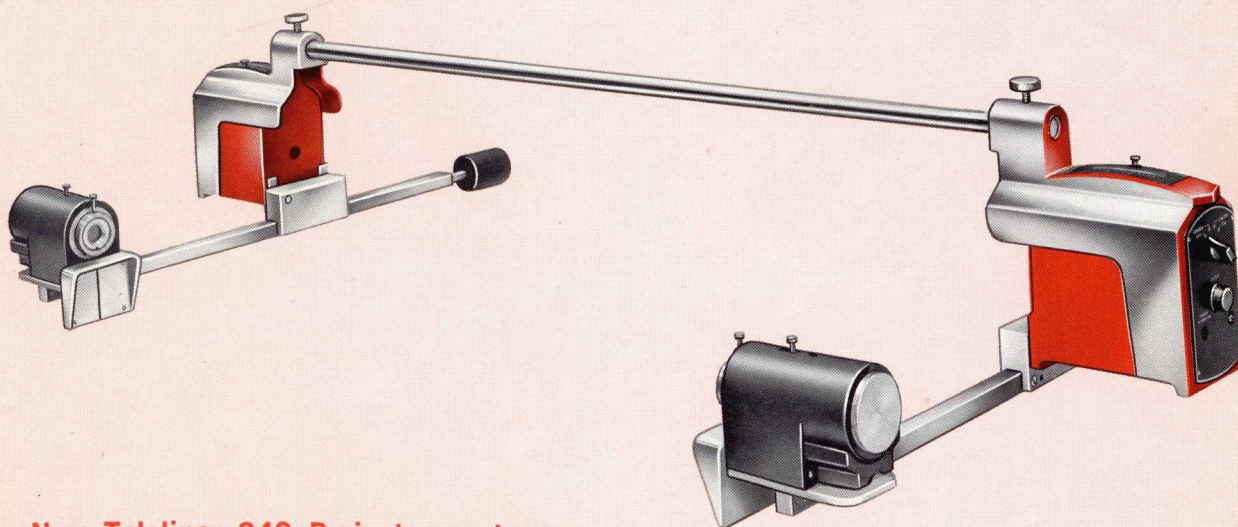
Model 632 Rollaway Service includes Model 634 View Screens on attractive, sturdy stands, right and left wheel units and cable connections.

Shipping Weight 359 lbs.

NEW SPACE AGE ELECTRONIC WHEEL UNITS



The Deluxe 630 System Wheel Units are the modern answer to all service competition . . . look like satellites, send signals like Telstar to the wide angle, BIG split-screens. Telstar action flashes caster, camber, center point steering and precise toe readings with the simple flick of a switch. • "Center-Point" and "Toe" in one fast operation. • Separate "split-screen" readings for each wheel. • One simple switch for all alinement angles. • Automatic leveling after shake-down. • Measuring Wheel Run-Out is eliminated.



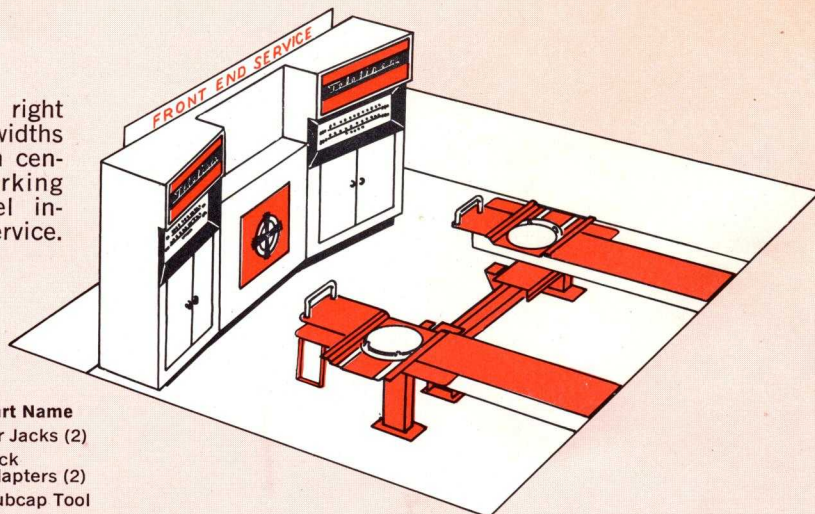
New Telaliner 640 Projectoe system

wheel units utilize the DeLuxé rim clamps and checking heads with optical-projection measurement for toe and center point steering. Need for measuring wheel run-out is eliminated with this precise "electronic eye" system.

TELALINER® & RACK SERVICES

640-3823 or 630-3823 SERVICE

The 3823 Stub Rack has adjustable right roller type runway to handle all tread widths 40" to 64" and is equipped with open center "Slide-Away" Beam for full working convenience. This compact floor-level installation uses the 630 Telaliner Service.



Service includes:

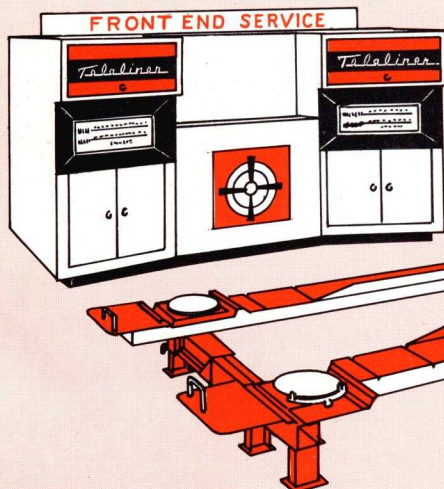
| No. | Part Name | No. | Part Name |
|------------|---------------------------|-------------|----------------------|
| 3823 | Stub Rack | AJ2 | Air Jacks (2) |
| 630 or 640 | Telaliner | 19609 | Jack Adapters (2) |
| 630-20005 | Tel-A-Matic Templates | X334 | Hubcap Tool |
| 44 | Turning Radius Gauges (2) | 8222 | Alinement Wrench Set |
| 8 | Pedal Depressor | 8214 & 8215 | Tie Rod Tools |
| 17 | Steering Wheel Holder | 8225 & 8226 | Tie Rod Tools |
| 50 | Tracking Gauge | 17892 | Shim Assort. |
| 68 | Torsion Bar Height Gauge | 22940 | Ford-Mercury Tool |

Shipping Weight 1,415 lbs.

If solid beam is desired, specify 630-3823S. Minimum space required (not recommended) 10' wide by 10' long. Allow 12' access to pit for car space. Recommended pit area 13' wide by 12' long by 32" deep.

640-145 or 630-145 SERVICE

The 145 Rack has right roller type runway adjustable to handle all tread widths 40" to 64" — "Slide-Away" Beam for front end working convenience.



Service includes:

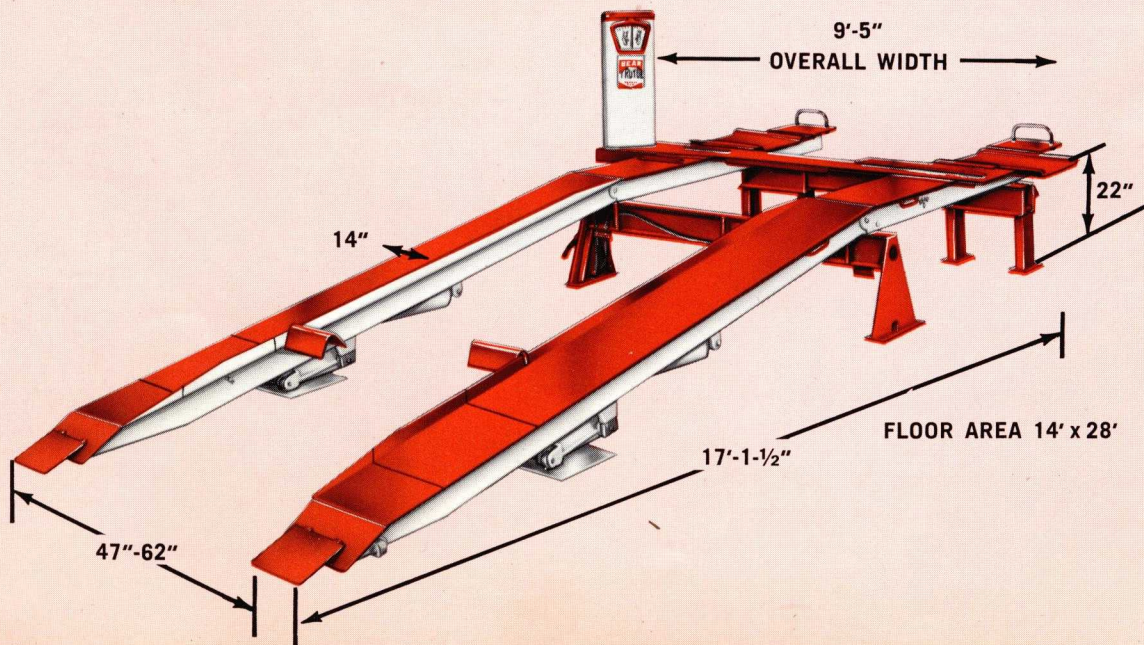
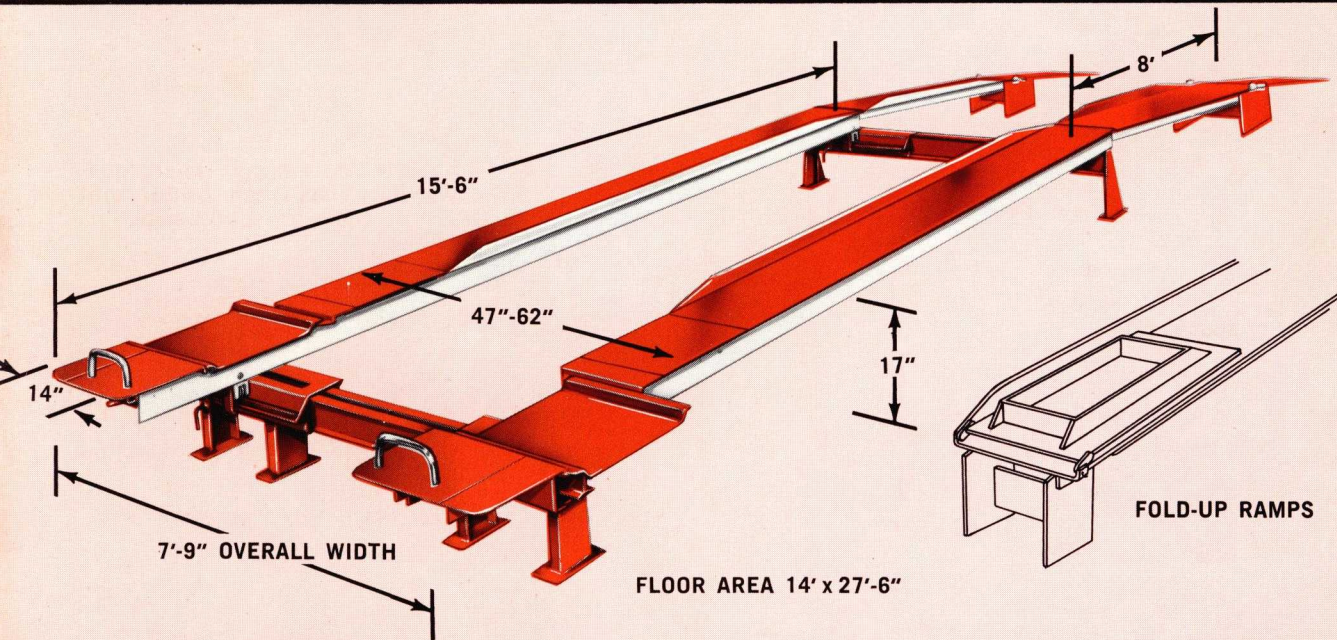
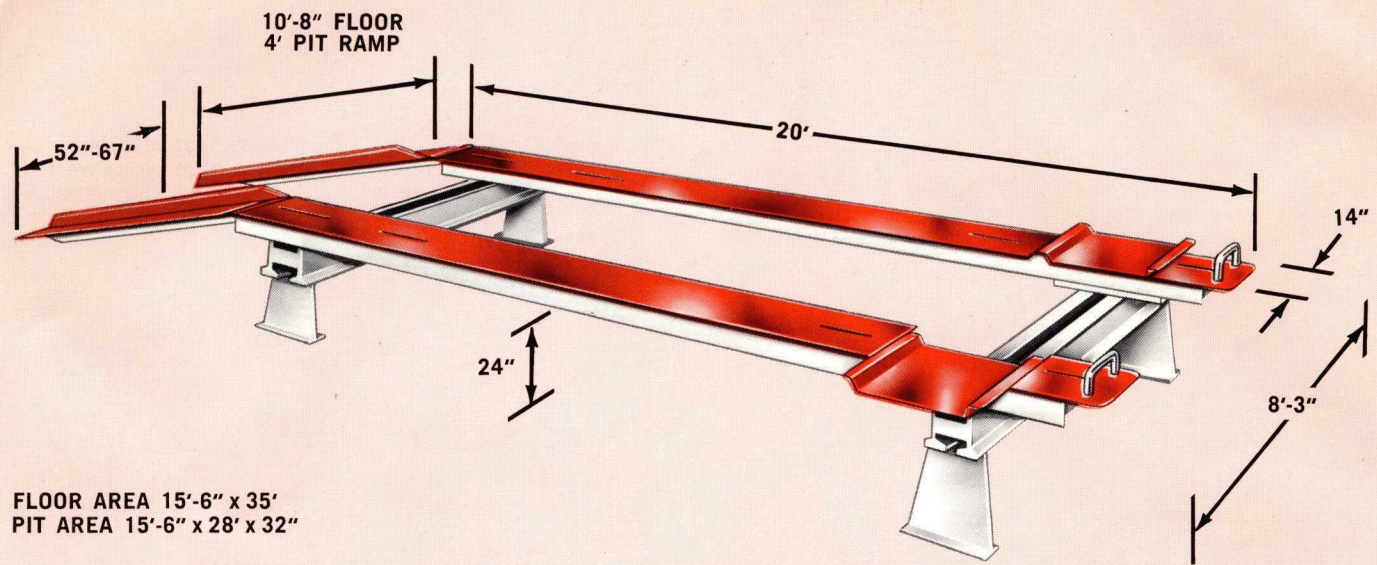
| No. | Part Name | No. | Part Name |
|------------|--------------------------------------|-------------|-----------------------|
| 145 | Adjustable Rack with Slide-Away Beam | 17 | Steering Wheel Holder |
| 630 or 640 | Telaliner Service | AJ2 | Air Jacks (2) |
| 630-20005 | Tel-A-Matic Templates | 19609 | Jack Adapters (2) |
| 44 | Turning Radius Gauges (2) | X334 | Hubcap Tool |
| 68 | Torsion Bar Height Gauge | 8214 & 8215 | Tie Rod Tools |
| 8 | Pedal Depressor | 8222 | Alinement Tools |
| | | 8225 & 8226 | Tie Rod Tools |
| | | 17892 | Shim Assort. |
| | | 22940 | Ford-Mercury Tool |

Shipping Weight 1,950 lbs.

If solid beam is desired, specify 630-145S. Rack has 32" hinged ramps that fold up when not in use. Recommended floor area 14' wide by 30' long — minimum space (not recommended) 10' by 28'.

Shipping Weight 1,770 lbs.

RACKS



RACK OUTFITS (Mechanical)

102 CONVERTIBLE RACK

Expansion possibilities with this Rack are almost unlimited. It is rugged and impressive—gets the car up to the most convenient working height—it's available for either floor or flush installation. You can add frame and/or body correction attachments any time.

Shipping Weight 2,783 lbs.

102-85 TRIPLE ACTION SERVICE

A complete front end alignment machine that also handles front axle and rear housing straightening. Can be converted to handle frame and body straightening by adding attachments and auxiliary equipment.

102-85 Service includes:

| No. | Part Name | No. | Part Name |
|-----------|-----------------------------|-------------|---------------------------|
| 102 | Convertible Rack | 17 | Steering Wheel Holder |
| 44 | Turning Radius Gauges (2) | 68 | Torsion Bar Height Gauge |
| 27 | Magnetic Gauges (2) | 85 | Axle and Housing Tool Set |
| 27-19616 | Check-O-Matic Templates (2) | X334 | Hubcap Tool |
| 27-20053A | Adapters (2) | 8225 & 8226 | Tie Rod Wrenches |
| 6D | Toe and Steering Set | 8214 & 8215 | Tie Rod Tools |
| 10C | Wheel Alining Gauge | 8222 | Alignment Tool Set |
| 50 | Wheel Tracking Gauge | 19609 | Jack Adapters (2) |
| 8 | Pedal Depressor | 17892 | Shim Assortment |
| | | 22940 | Ford-Mercury Tool |

Shipping Weight 2,981 lbs.

Recommended floor area 15' 6" by 35'.

145 BUDGET RACK with Slide-Away Beam

A budget priced rack quickly and easily adjustable to all tread widths including compacts and imports as well as wide tread cars. 32" fold up ramps to conserve floor space.

Specify 145S for solid beam.

Shipping Weight 1,053 lbs.

145-27 BUDGET-SAVER SERVICE

The adjustable width 145 Rack saves space, offers convenient height at low cost. Rack has open center with "Slide-Away" Beam—can be ordered with solid beam.

145-27 Service includes:

| No. | Part Name | No. | Part Name |
|-----------|--------------------------------------|-------------|-----------------------|
| 145 | Adjustable Rack with Slide-Away Beam | 8 | Pedal Depressor |
| 44 | Turning Radius Gauges (2) | 17 | Steering Wheel Holder |
| 27 | Magnetic Gauges (2) | AJ2 | Air Jacks (2) |
| 27-19616 | Check-O-Matic Templates (2) | 19609 | Jack Adapters (2) |
| 27-20053A | Adapters (2) | X334 | Hubcap Tool |
| 6D | Toe and Steering Set | 8214 & 8215 | Tie Rod Tools |
| 68 | Torsion Bar Height Gauge | 8222 | Alignment Tool Set |
| | | 8225 & 8226 | Tie Rod Wrenches |
| | | 17892 | Shim Assortment |
| | | 22940 | Ford-Mercury Tool |

Shipping Weight 1,356 lbs.

If solid beam is desired, specify 145S-27 Rack. Recommended floor area 14' wide by 27' 6" long.

163 POWER RACK with Slide-Away Beam

If you have space to park a car you have space for this air powered rack. Ramps lower and raise, smoothly and safely to let you drive on and off. Ramps may be operated individually to free either rear wheel—adjustable roller type right runway.

Shipping Weight 1,300 lbs.

Recommended floor area—14' wide by 28" long. If solid beam is desired, specify 163S.

163-210 DRIVE-O-MATIC SERVICE

Combines the 163 Power Rack with the 210 Drive-Over Scuff Tester together with all necessary tools and gauges for complete alignment checking and adjustment on all cars and light delivery trucks with tread width 40" to 64".

163-210 Service includes:

| No. | Part Name | No. | Part Name |
|-----------|----------------------------------|-------------|--------------------------|
| 163 | Power Rack with Slide-Away Beam | 68 | Torsion Bar Height Gauge |
| 210 | Drive-Over Alinement Tester | 10C | Alinement Gauge |
| 44 | Turning Radius Gauges (2) | X334 | Hubcap Tool |
| 8 | Pedal Depressor | 8222 | Alinement Tool Set |
| 27 | Magnetic Gauges (2) | 8225 & 8226 | Tie Rod Wrenches |
| 27-19616 | Check-O-Matic Templates (2 sets) | 8214 & 8215 | Tie Rod Tools |
| 27-20053A | Adapters (2) | AJ2 | Air Jacks (2) |
| 50 | Tracking Gauge | 19609 | Jack Adapters (2) |
| | | 17 | Steering Wheel Holder |
| | | 17892 | Shim Assortment |
| | | 22940 | Ford-Mercury Tool |

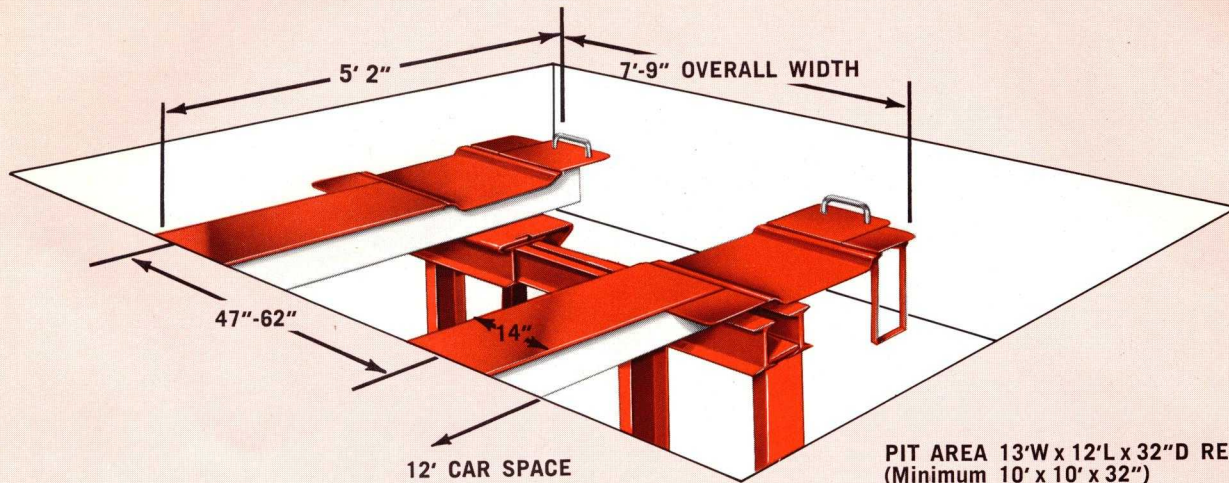
Shipping Weight 1,926 lbs.

If solid beam is desired, specify 163S-210. Recommended floor area 14' wide by 28' long.

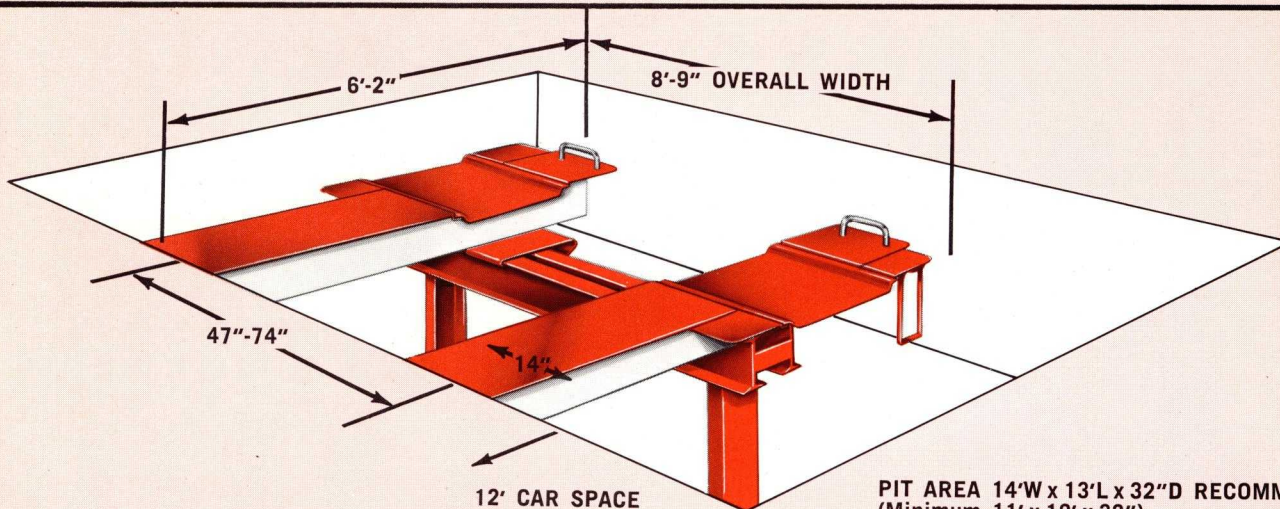
Can be ordered less 210 tester.

Telaliner or Projectoe Services may be added to all of the above any time.

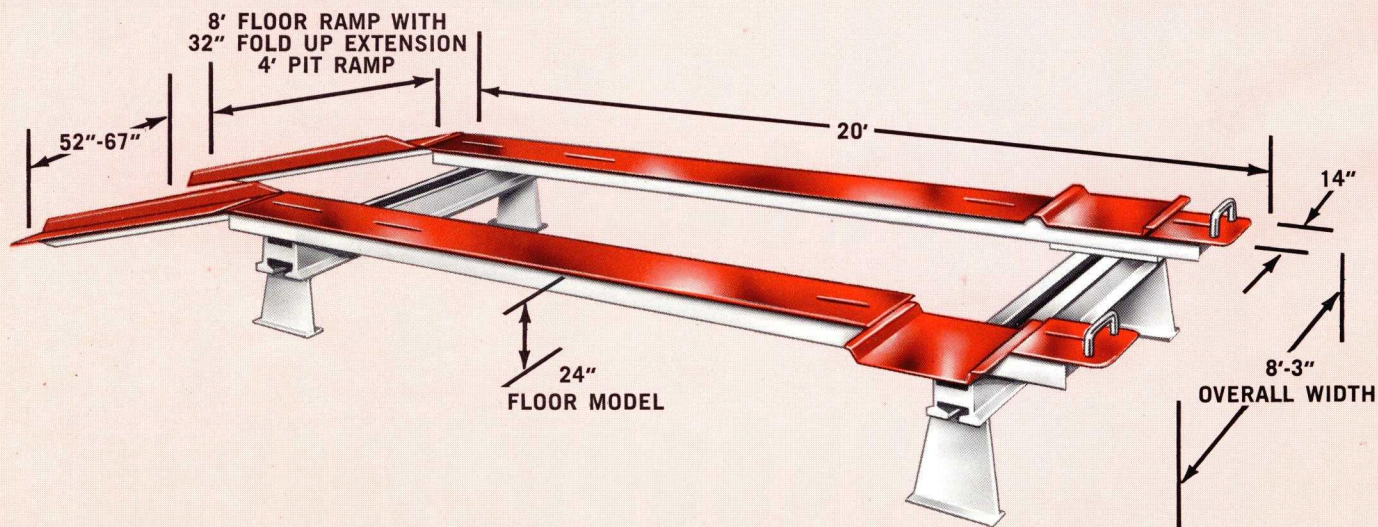
RACKS



PIT AREA 13'W x 12'L x 32"D RECOMMENDED
(Minimum 10' x 10' x 32")



PIT AREA 14'W x 13'L x 32"D RECOMMENDED
(Minimum 11' x 10' x 32")



FLOOR AREA 15'-6" x 35'
PIT AREA 15'-6" x 28' x 32"

RACK OUTFITS (Mechanical)

3823 PIT RACK With Slide-Away Beam

- Simplifies and speeds up front end adjustment and replacement operations!
- Beam slides in or out of the way with one hand!
- Open center allows easy access to under chassis parts!

A popular floor-level rack for passenger cars and light pick-up trucks. Has adjustable roller type runway to handle all tread widths. Specify 3823S for solid beam.

Shipping Weight 595 lbs.

3823-27 SPACEMASTER SERVICE

The compact 3823 Stub Rack has adjustable roller type right runway to handle all tread widths, 40" to 64". Open center "Slide-Away" Beam provides ample working space. Handles all passenger cars and light pick-ups for six-point inspection and adjustment of caster, camber, toe-in, steering axis inclination, turning radius and center point steering.

Service includes:

| No. | Part Name | No. | Part Name |
|-----------|-----------------------------|-------------|-----------------------|
| 3823 | Stub Rack | 8 | Pedal Depressor |
| 44 | Turning Radius Gauges (2) | 17 | Steering Wheel Holder |
| 27 | Magnetic Gauges (2) | 19609 | Jack Adapters (2) |
| 27-19616 | Check-O-Matic Templates (2) | 17892 | Shim Assortment |
| 27-20053A | Adapters (2) | X334 | Hubcap Tool |
| 6D | Toe and Steering Set | 8222 | Alinement Tool Set |
| 50 | Tracking Gauge | 8225 & 8226 | Tie Rod Tools |
| 68 | Torsion Bar Height Gauge | 8214 & 8215 | Tie Rod Tools |
| | | AJ2 | Air Jacks (2) |
| | | 22940 | Ford-Mercury Tool |

Shipping Weight 946 lbs.

If solid beam is desired, specify 3823S-27. Minimum space required (not recommended) 10' wide by 10' long. Allow 12' access to pit for car space.

3833 PIT RACK Extra Wide Treads

A new stub rack with solid beam especially designed to service all passenger cars and the wide tread light trucks. Offers complete front end service in a small space — attachments are available to handle rear housing and front axle work.

Shipping Weight 725 lbs.

3833-27 WIDE TREAD SERVICE

3833 Rack is extra wide to handle all passenger cars and wide tread light trucks, 40" to 76" tread width. Solid beam is extra strong for front axle and rear housing correction work. Service includes:

Same equipment as 3823-27 Service with exception of 3823 Rack replaced by the 3833 Wide Rack.

Shipping Weight 1,130 lbs.

102 CONVERTIBLE RACK

Expansion possibilities with this Rack are almost unlimited. It is rugged and impressive — gets the car up to the most convenient working height — it's available for either floor or flush installation. You can add frame and/or body correction attachments any time.

Shipping Weight 2,783 lbs.

107-85 FRAME & ALINEMENT SERVICE

Complete frame and alinement service with 20-foot adjustable runway to handle all cars and light trucks. Includes precision gauges and tools for axle and rear housing straightening and front end alinement. Available for floor or pit installation.

Recommended space for pit installation, 15' 6" x 28' — for floor installation, 15' 6" x 35'.

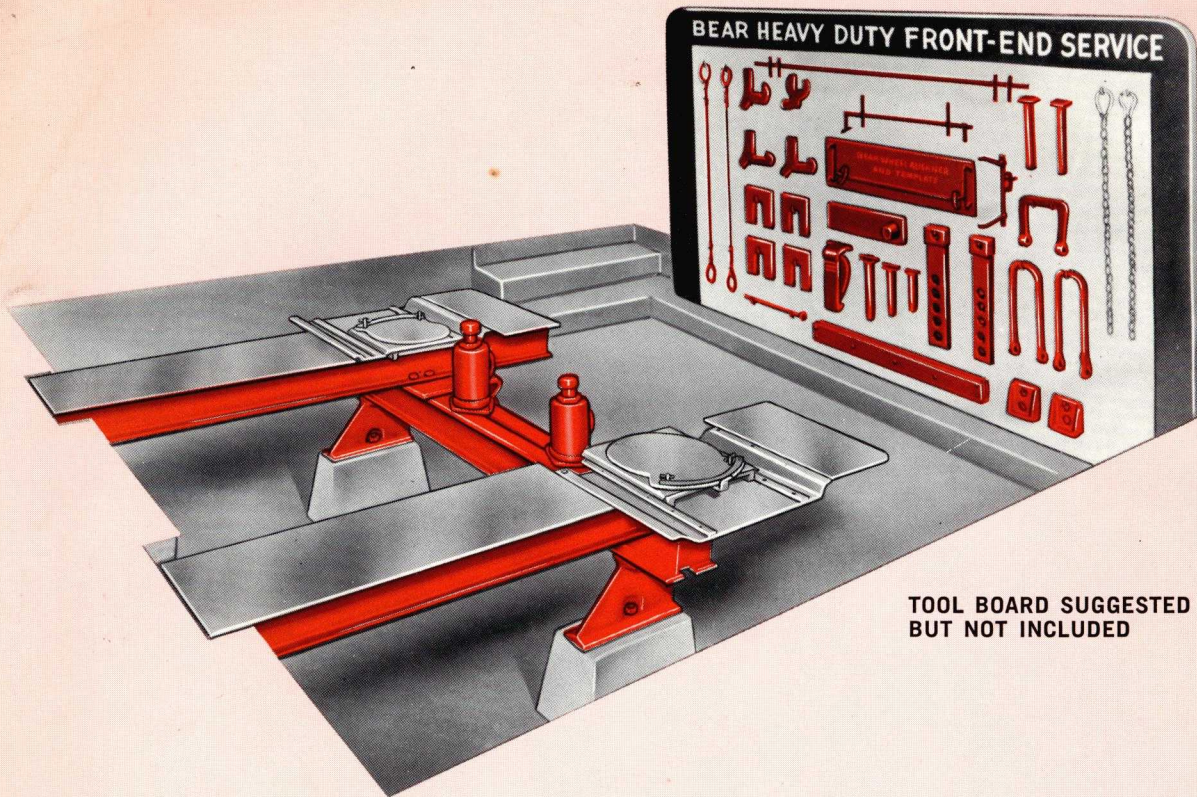
107-85 Service includes:

| No. | Part Name | No. | Part Name |
|-----------|-----------------------------|-------------|--------------------------|
| 102 | Convertible Rack | 8 | Pedal Depressor |
| 104 | Frame Attachments | 17 | Steering Wheel Holder |
| 85 | Axle Press | 68 | Torsion Bar Height Gauge |
| 92A | Body-Frame Gauge Set | X334 | Hubcap Tool |
| 44 | Turning Radius Gauges (2) | 8222 | Alinement Tool Set |
| 27 | Magnetic Gauges (2) | 8214 & 8215 | Tie Rod Tools |
| 27-19616 | Check-O-Matic Templates (2) | 8225 & 8226 | Tie Rod Tools |
| 27 20053A | Adapters (2) | 19609 | Jack Adapters (2) |
| 6D | Toe and Steering Set | 17892 | Shim Assortment |
| 10C | Wheel Alining Gauge | 20072 | Flex-O-Power |
| 50 | Wheel Tracking Gauge | 15007 | Jack Base |
| | | 22940 | Ford-Mercury Tool |

Shipping Weight 5,817 lbs.

Telaliner or Projectoe Services may be added to all of the above any time.

HEAVY DUTY RACKS



TOOL BOARD SUGGESTED
BUT NOT INCLUDED

3840-8300 TRUCKSTER SERVICE

An extra heavy-duty pit service for complete inspection and correction of front axles, rear housings and heavy-duty wheel alignment for heavy-duty, medium and light commercial vehicles.

3840-8300 Service includes:

| No. | Part Name | No. | Part Name |
|------|---------------------------|-----|-------------------------------|
| 3840 | Heavy Duty Stub Rack | 15 | Wheel Alignment Gauge |
| 8300 | Heavy Duty Axle Press | 21T | Caster, Camber, Kingpin Gauge |
| 44T | Turning Radius Gauges (2) | 20T | Toe-in Gauge |
| 51 | Wheel Tracking Gauge | 30 | Tire Scriber |
| 8 | Pedal Depressor | | |

Shipping Weight 3,131 lbs.

Recommended space 14' 6" wide by 13' 6" long — allow 12' pit approach for vehicle.

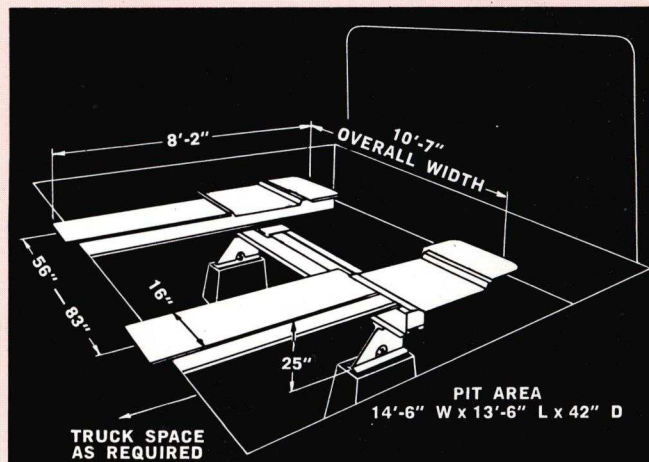
- EXCLUSIVE BEAR SYSTEM OF APPLYING HYDRAULIC POWER DEVELOPS UP TO 210 TONS IN ONE SPOT!
- CONVERTS TO COMPLETELY UNIVERSAL OUTFIT BY ADDING PASSENGER CAR TOOLS AND GAUGES.
- SPACE SAVING — TAKES ONLY 14½' BY 13½' SPACE!

The Bear Truckster Service makes an ideal extra income service for shops now equipped to handle passenger car and light truck work. This is a perfect service for large fleet maintenance.

3840 HEAVY DUTY PIT RACK

A stub rack for pit installation to handle heavy duty front end and housing work on trucks, buses, tractors, medium and light commercial vehicles. Extra rugged press beam to handle axle correction assemblies. Adjustable runway.

Shipping Weight 1,535 lbs.

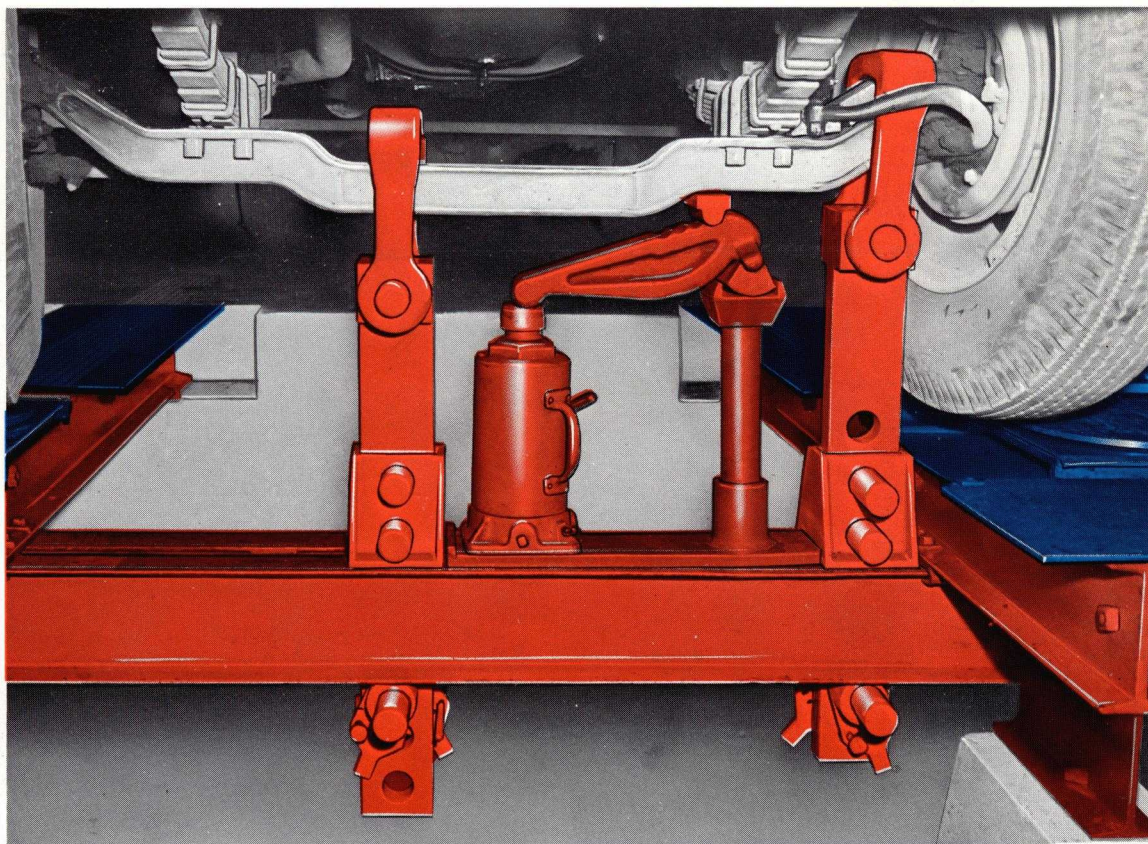


no.

1

in

heavy duty services

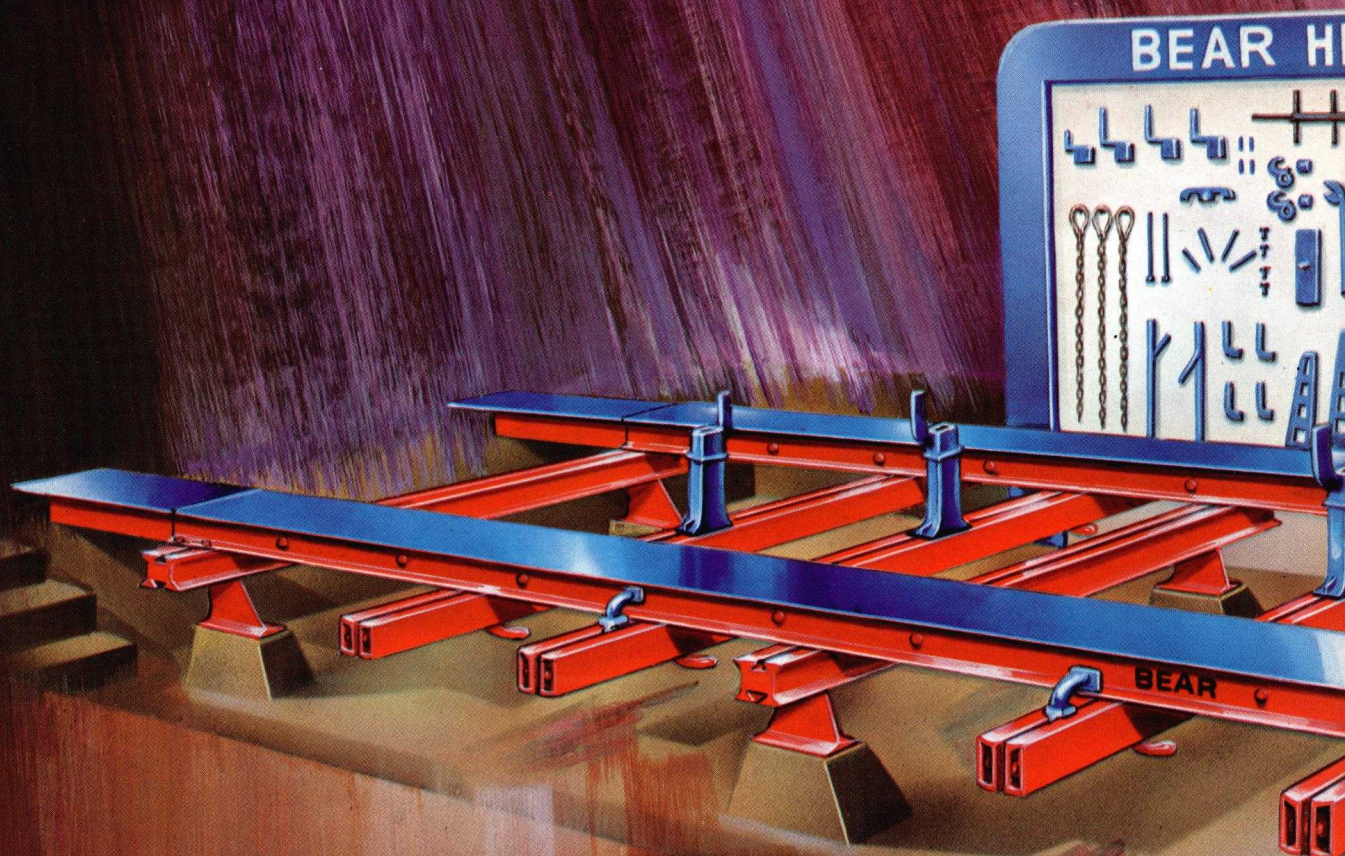


Used by more leading Fleets and Fleet Service Shops than any other!

8300 HEAVY-DUTY AXLE PRESS

- STRAIGHTENS HEAVIEST AXLES COLD . . . RIGHT ON THE VEHICLE!
- EXCLUSIVE BEAR LEVERAGE PRINCIPLE DEVELOPS 210 TONS OF CONTROLLED POWER!
- CORRECTS BOTH ENDS OF AXLE SIMULTANEOUSLY OR INDIVIDUALLY!
- INCLUDES ALL TOOLS AND ATTACHMENTS TO HANDLE EVERY JOB!

Bear Super Heavy-Duty Frame for the largest trucks, buses



9000-8300 SUPER HEAVY DUTY SERVICE

Provides complete frame and axle correction for all heavy duty vehicles plus alinement checking and correction. Available in 30' and 22½' runway lengths for pit installation with extra lengths by special order.

9000-8300 Service includes:

| No. | Part Name |
|------|---|
| 9500 | Super Heavy Duty Rack (30' or 22½' runways) |
| 9300 | Super Heavy Duty Frame Attachments |
| 8300 | Super Heavy Duty Axle Press |
| 44T | Turning Radius Gauges (2) |
| 15T | Alinement Gauges (extra long) |

| No. | Part Name |
|------|---------------------------|
| 51 | Tracking Gauge |
| 20TC | Toe-in Gauge (extra long) |
| 30 | Tire Scriber |
| 92T | Frame Gauges (set of 4) |
| 21T | Caster, Camber Gauge |
| 8 | Pedal Depressor |

Shipping Weight (30' unit) 13,646 lbs.

Shipping Weight (22½' unit) 11,500 lbs.

Recommended pit area — (30' unit) 16' wide by 37½' long; (22½' unit) 16' wide by 30' long.

9500 SUPER HEAVY DUTY RACK

Handles the largest trucks, buses, and trailers. Runways are built of two 8" I-beams with heavy reinforcement. Top plate of runway is 1/2" thick. Frame and axle straightening can be done with the Frame and Axle attachments. H

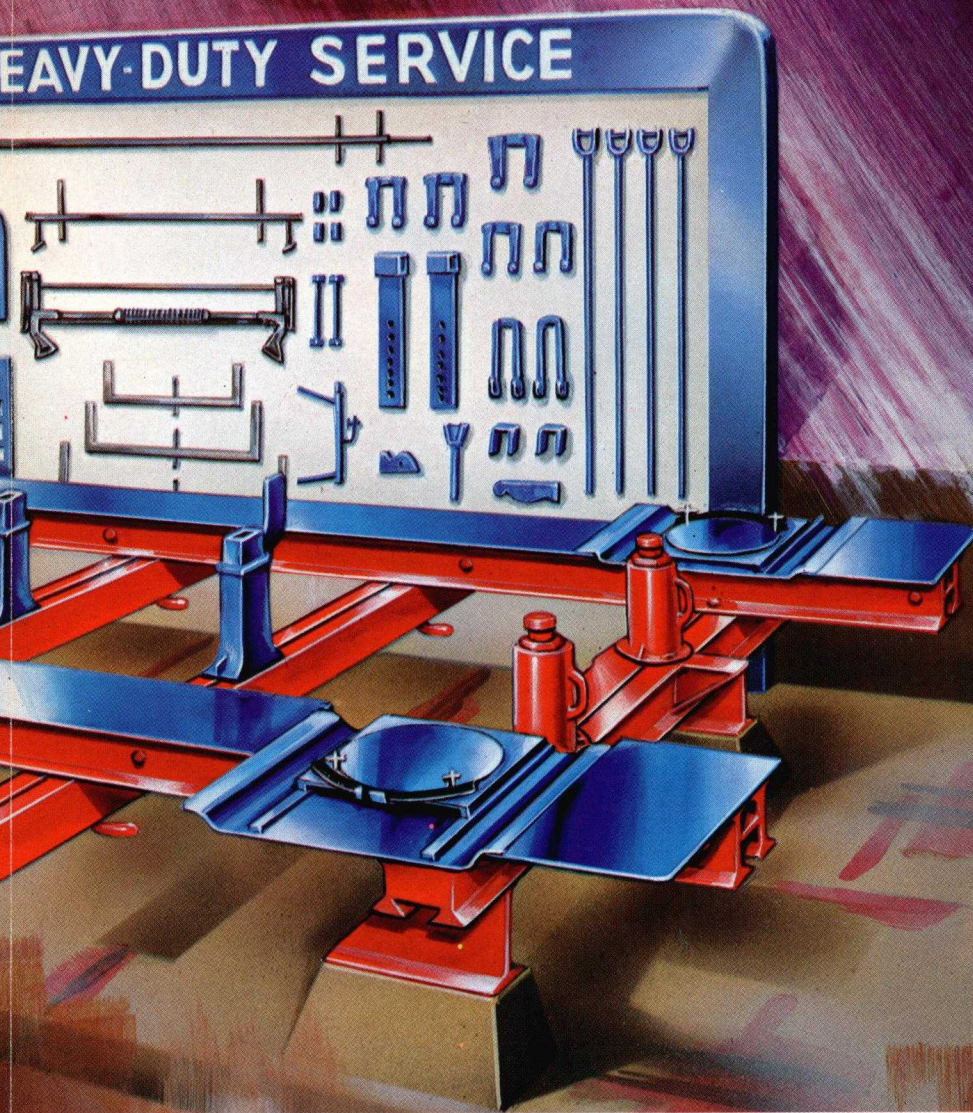
Shipping Weight (30' unit)

Shipping Weight (22' 6" unit)

45' or more rack lengths are available

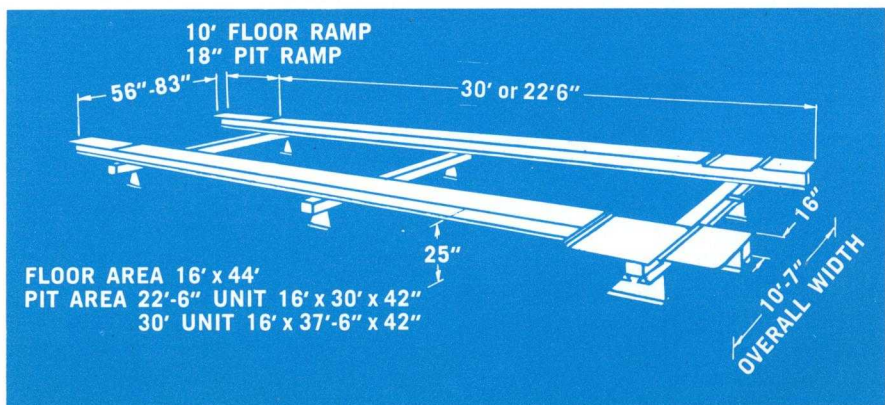
Tool Board suggested but not

Frame and Axle Service Buses, tractors, trailers...

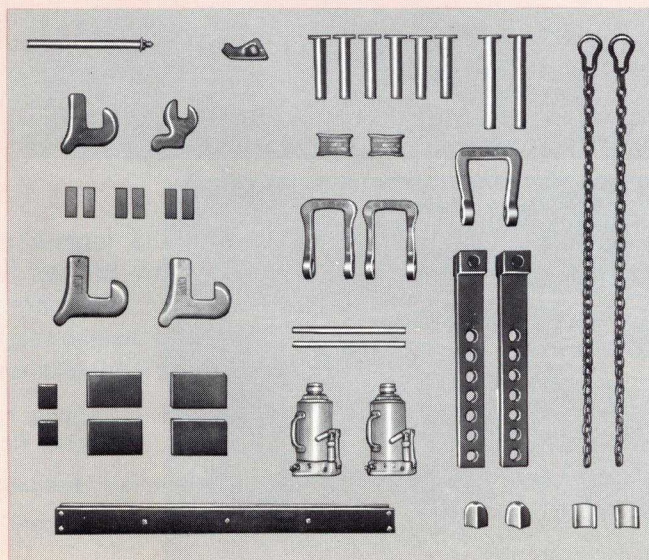
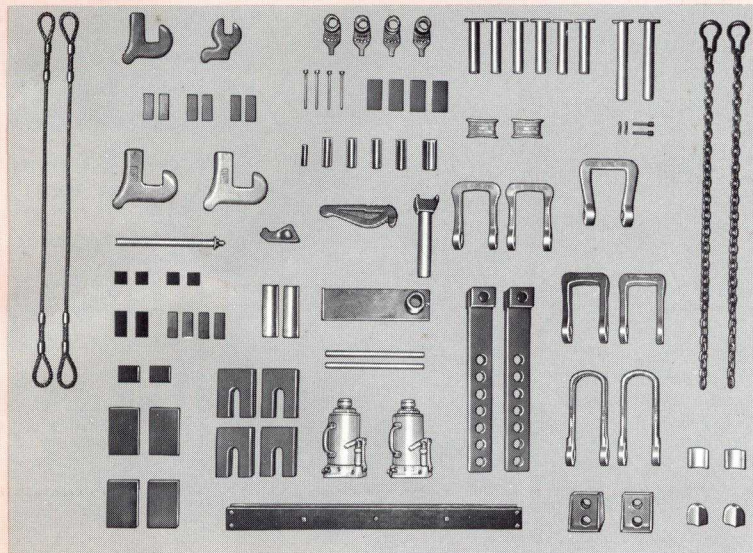


CK
 tractors, and trailers.
 s with 6" H-beam rein-
 3/8" thick. Complete
 be handled by adding
 as adjustable runway.

7,760 lbs.
) 5,680 lbs.
 with custom construction.
 not included



AXLE CORRECTION



8300 HEAVY DUTY AXLE PRESS

8300 Service includes:

| No. | Part Name |
|-------|---------------------------------------|
| 17265 | Block, 3/8 x 2 1/4 x 2 1/4 (2) |
| 17266 | Block, 5/8 x 2 1/2 x 2 1/2 (2) |
| 17267 | Block, 5/8 x 2 1/2 x 5 (2) |
| 17269 | Wedge (4) |
| 17261 | Bending Arm (1) |
| 17270 | Wedge (2) |
| 17262 | Block, Long Yoke (1) |
| 17264 | Pin, Pivot Base (1) |
| 16656 | Bridge Bar (1) |
| 137 | Press Casting (HD20) (2) |
| 1252 | Block (old No. 11) (2) |
| 55 | Twisting Arm (64FTA) (1) |
| 2205 | Plate, Slotted (HD22A) (4) |
| 4747 | Chain (HD3) (2) |
| 4761 | Jack Head (2) |
| 15098 | Twisting Arm (1) |
| 15099 | Twisting Arm (2) |
| 15131 | Spacer, 3/4 x 2 x 5 (2) |
| 15132 | Spacer, 1/2 x 2 x 5 (2) |
| 15133 | Spacer, 1/4 x 2 x 5 (2) |
| 16459 | Yoke, Standard (2) |
| 16460 | Yoke, Long (2) |
| 16461 | Yoke, Spring Pad (1) |
| 16462 | Pin, Long, Assembly (2) |
| 16465 | Spreader Bar Assembly (1) |
| 16466 | Connector Assembly (2) |
| 16467 | Connector Support Assembly (2) |
| 16470 | Pin, Lock (2) |
| 16471 | Plate, 2 x 6 x 9 (2) |
| 16472 | Plate, 1 x 6 x 9 (2) |
| 16473 | Cable (2) |
| 16463 | Pin, Short, Assembly (6) |
| 16534 | Yoke, Heavy Duty (2) |
| 16629 | Cam Lock Assembly (4) |
| 16632 | Cam Lock Assembly (1) |
| 16635 | Cam Lock Assembly (4) |
| 16637 | Post, Upright Assembly (1) |
| 16638 | Plate, 3/16 x 3 x 6 (4) |
| 16642 | Base Plate Assembly (1) |
| 16648 | Pivot Pin & Base Assembly, 1/2" (1) |
| 16649 | Pivot Pin & Base Assembly, 3/4" (1) |
| 16650 | Pivot Pin & Base Assembly, 1" (1) |
| 16651 | Pivot Pin & Base Assembly, 1 1/4" (1) |
| 16652 | Jack, 30-Ton, BMC9 (2) |
| 9733 | 1/8 x 1 1/2 Cotter Pin (2) |
| 16665 | Block (2) |

Shipping Weight 1,520 lbs.

820 MEDIUM DUTY AXLE PRESS

820 Service includes:

| No. | Part Name |
|-------|----------------------------|
| 16471 | Plate, 2" x 6" x 9" (2) |
| 16472 | Plate, 1" x 6" x 9" (2) |
| 1252 | Block (No. 11) (2) |
| 16465 | Spreader Bar Assembly (1) |
| 17262 | Long Yoke Block (1) |
| 15099 | Twisting Arm (2) |
| 15131 | Spacer, 3/4" x 2" x 5" (2) |
| 15132 | Spacer, 1/2" x 2" x 5" (2) |
| 15133 | Spacer, 1/4" x 2" x 5" (2) |
| 15098 | Twisting Arm (1) |
| 55 | Twisting Arm (64FTA) (1) |
| 16656 | Bridge Bar (1) |
| 16652 | 30 Ton Jack, (BMC9) (2) |
| W123A | Jack Handle (2) |
| 16466 | Connector (2) |
| 16459 | Standard Yoke (2) |
| 16665 | Block (2) |
| 16461 | Spring Pad Yoke (1) |
| 16463 | Short Pin (6) |
| 16462 | Long Pin (2) |
| 4761 | Jack Head (2) |
| 137 | Press Casting (HD20) (2) |
| 4747 | Chain (HD3) (2) |

Shipping Weight 998 lbs.

AXLE CORRECTION

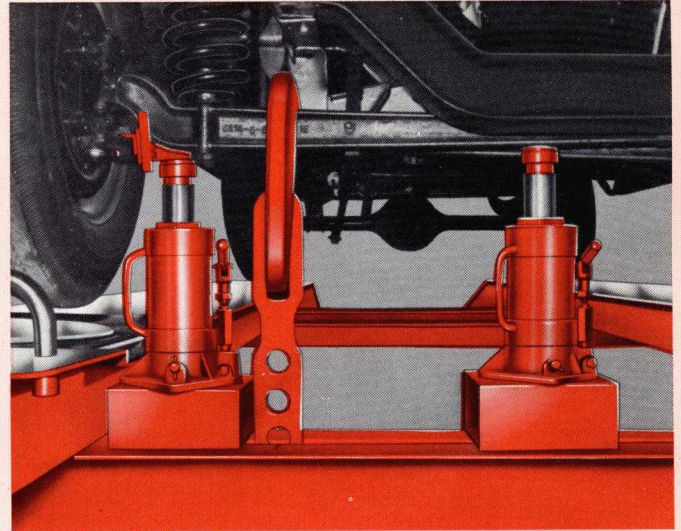
80 TWIN I-BEAM AXLE CORRECTION TOOL SET

A special Axle Correction Set designed for Ford I-Beam models. Makes it easy to correct caster and camber on the two independent, forged I-Beam front axles. Set contains all of the necessary tools for "cold-correction" of the outer ends of the axles for fast, precision alignment.

Service includes:

| No. | Part Name |
|------------|--------------------|
| 85 — W125 | Hydraulic Jack (1) |
| 85 — W126 | Hydraulic Jack (1) |
| 85 — W123A | Jack Handles (2) |
| 85 — 1437B | Camber Hook (2) |
| 85 — B 95A | Camber Bars (2) |
| 85 — 24T | Pins (2) |
| 85 — 9 B | Bending Tool (1) |
| 8300-55 | Twisting Arm (1) |
| 24485 | Adapter Plate (1) |

Shipping Weight 350 lbs.

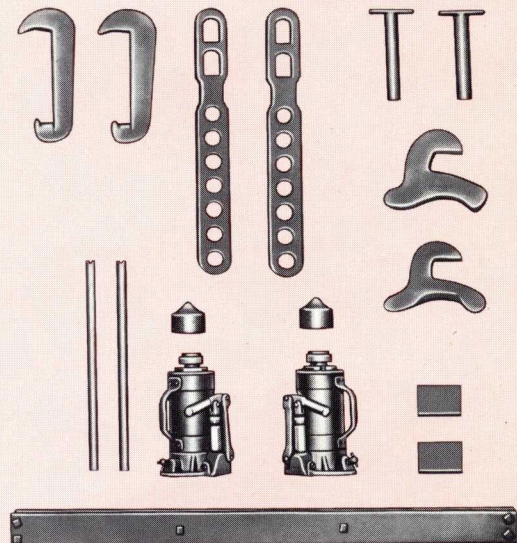


85 AXLE, REAR HOUSING CORRECTION TOOL SET

Parts and tools for quickly making operational hook-ups for practically all axle and rear housing correction jobs. For passenger cars and light delivery trucks. Provides 24 tons hydraulic pressure.

Shipping Weight 180 lbs.

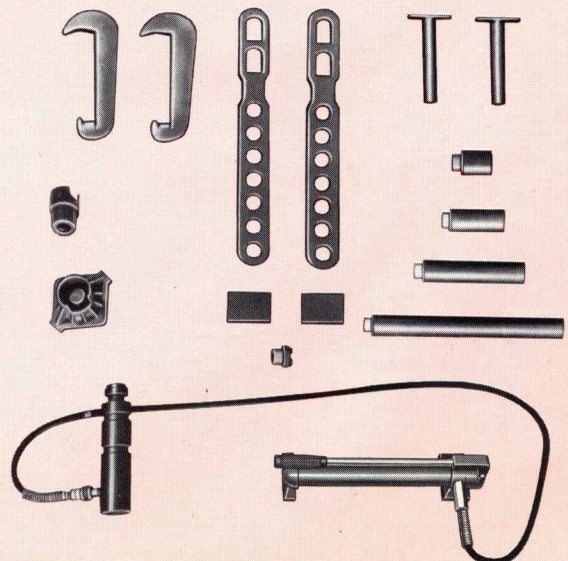
Order one 8300-55 Twisting Arm and one 24485 Adaptor Plate to handle Twin I-Beam Axles.



86 IMPROVED FLEX-O-POWER

Powerful hydraulic pump and heavy duty ram . . . 12-ton rated capacity, essential for work on all frame-body correction problems. For use with Bear frame correction units. Special lightweight aluminum alloy construction.

Shipping Weight 135 lbs.



FLASH-O-MATIC BASIC SERVICES



246 FLOOR TYPE SERVICE

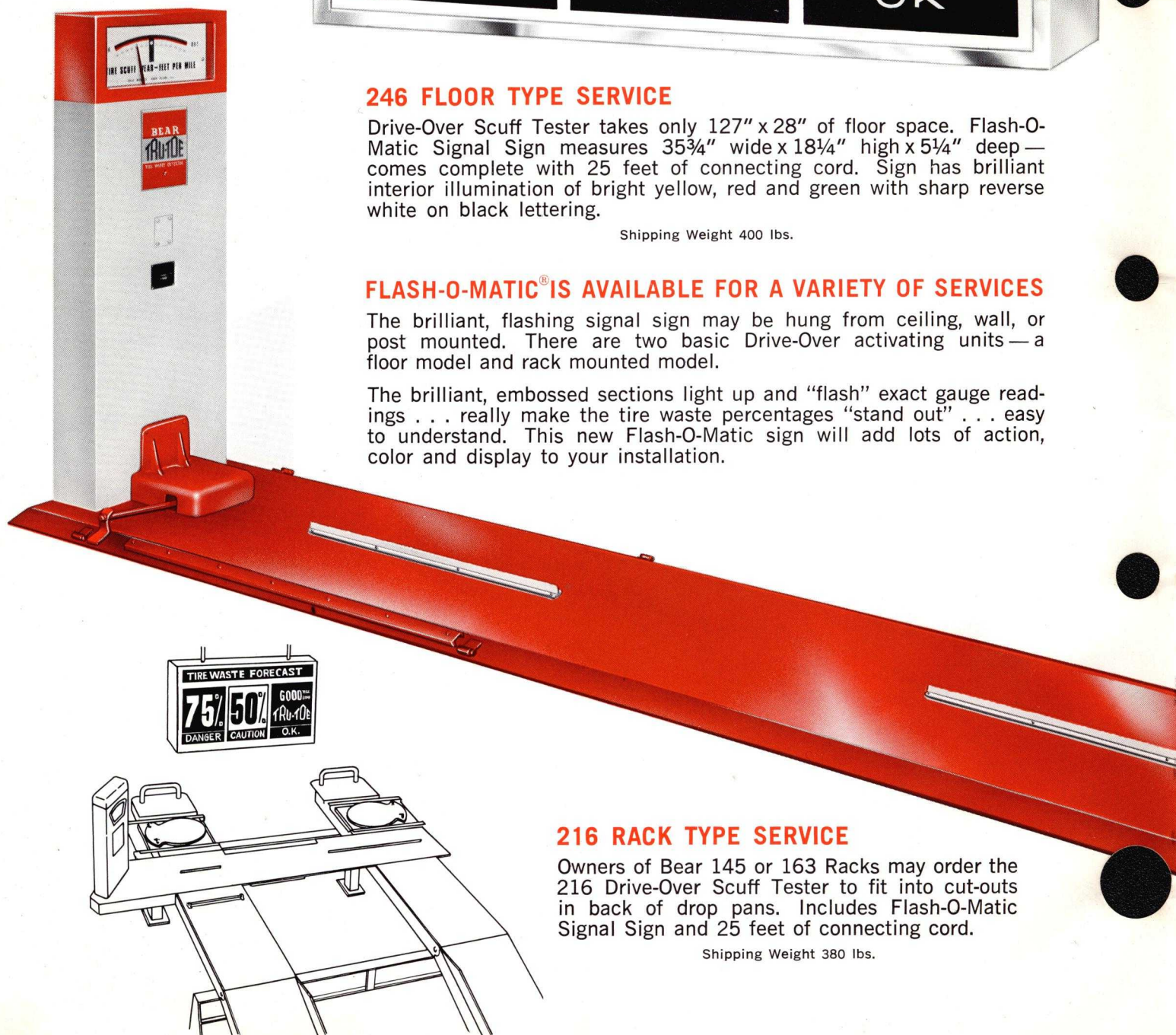
Drive-Over Scuff Tester takes only 127" x 28" of floor space. Flash-O-Matic Signal Sign measures 35 $\frac{3}{4}$ " wide x 18 $\frac{1}{4}$ " high x 5 $\frac{1}{4}$ " deep — comes complete with 25 feet of connecting cord. Sign has brilliant interior illumination of bright yellow, red and green with sharp reverse white on black lettering.

Shipping Weight 400 lbs.

FLASH-O-MATIC® IS AVAILABLE FOR A VARIETY OF SERVICES

The brilliant, flashing signal sign may be hung from ceiling, wall, or post mounted. There are two basic Drive-Over activating units — a floor model and rack mounted model.

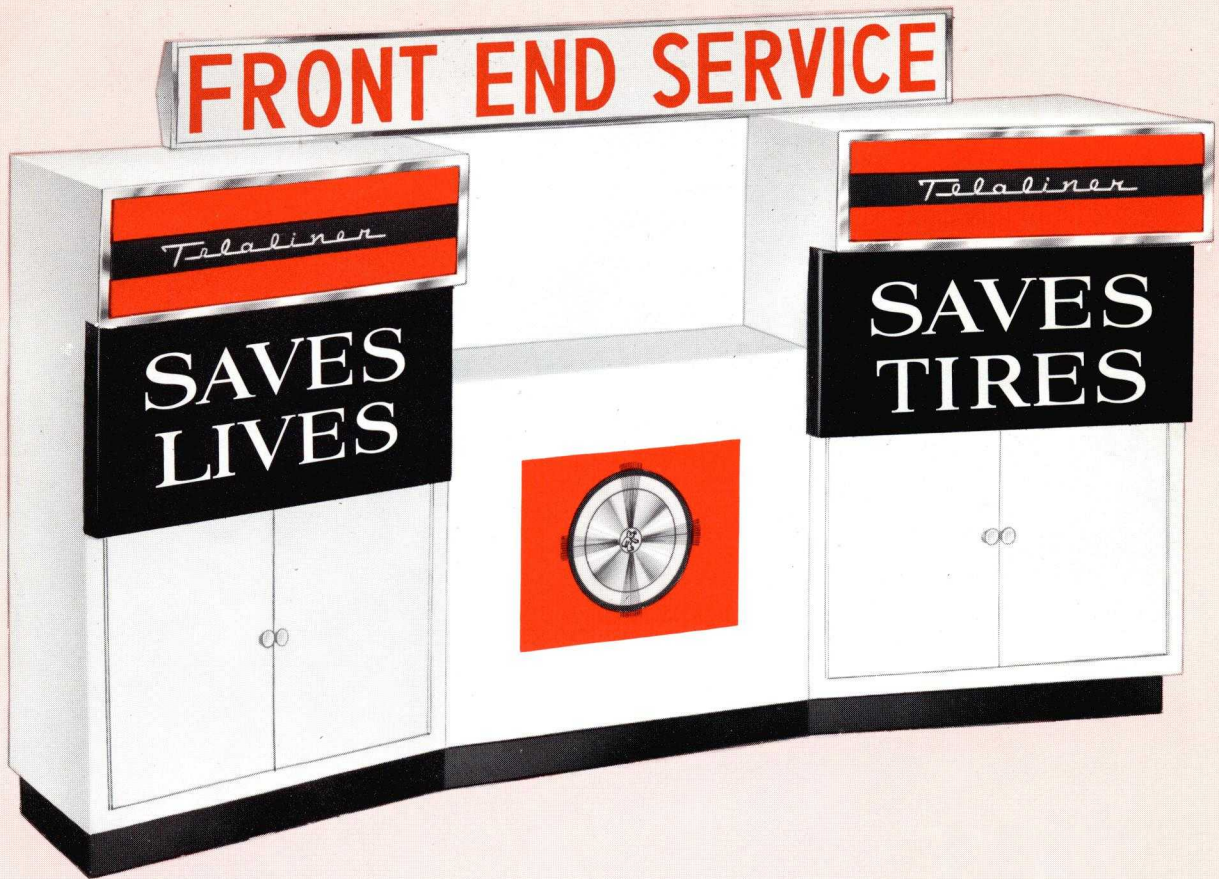
The brilliant, embossed sections light up and "flash" exact gauge readings . . . really make the tire waste percentages "stand out" . . . easy to understand. This new Flash-O-Matic sign will add lots of action, color and display to your installation.



216 RACK TYPE SERVICE

Owners of Bear 145 or 163 Racks may order the 216 Drive-Over Scuff Tester to fit into cut-outs in back of drop pans. Includes Flash-O-Matic Signal Sign and 25 feet of connecting cord.

Shipping Weight 380 lbs.



617B MERCHANDISER CABINET

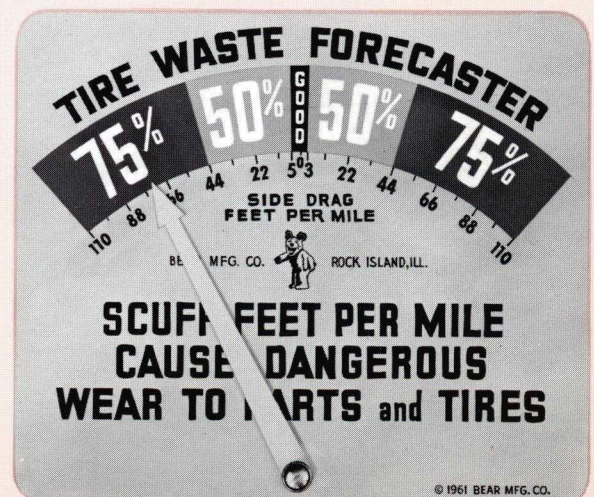
The beautiful Telaliner background with strong, selling signs replacing the view screen areas. Can be converted to a full Telaliner at any time.

Shipping Weight 375 lbs.

No. 40 TIRE WASTE FORECASTER

This manually operated sign mounted on your scuff gauge tower performs the same selling function as the Flash-O-Matic.

Shipping Weight 5 lbs.



WHEEL BALANCERS



Services include:

| No. | Part Name |
|------------|--------------------------------------|
| 15850 | Balancer Unit |
| 372 or 382 | Spinner |
| 18740 | Jiggler |
| X333 | Weight Tool |
| 14" | Wheel Adaptor |
| 15" | Wheel Adaptor |
| 13" | Wheel Adaptor is available accessory |

Shipping Weights 110 lbs. and 130 lbs.

A CHOICE OF 2 POWERFUL SPINNERS TO SHOW UNBALANCE AND PROVE BALANCE

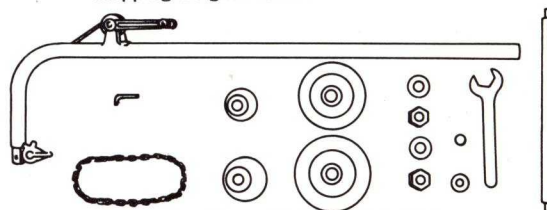
MODELS 377 and 387 BALANCERS

Safe, accurate with On-A-Car speed and simplicity. Balances both front and rear wheel assemblies. Fast, easy two knob operation accurately shows amount and location of weight required. Good looking, sturdy single or dual motor spinner with safe foot pedal control and weight storage compartment. Sensitive "Jiggler" amplifies unbalance five times . . . assures accuracy, proves balance. Single 1½ H.P. motor operates on 110 V. dual produces 3 H.P. on 220 V.

36 OFF-THE-CAR WHEEL BALANCER

Balances all passenger car wheel assemblies. Full view speedometer indicates speeds at which unbalance exists. Unbalance is metered in fractions of ounce while visible spark dial shows exact location of unbalance. Large control panel has easy-to-read electric compensator to tune balancer to 6.00, 7.00 and 8.00 wheel sizes. Motor is 110-60 cycle AC. Maximum capacity of wheel 36" outside diameter—150 lbs. wheel weight.

Shipping Weight 295 lbs.



331 HEAVY DUTY ATTACHMENTS

Hoist and truck wheel attachments used with the 330 Balancer to lift and balance truck wheels. Hand operated hoist handles largest wheel assemblies that can be balanced on the 330.

Shipping Weight 121 lbs.



MODEL 35 SPINNER

110 V A.C. ½ H.P. Motor

Shipping Weight 37 lbs.



WHEEL BALANCERS



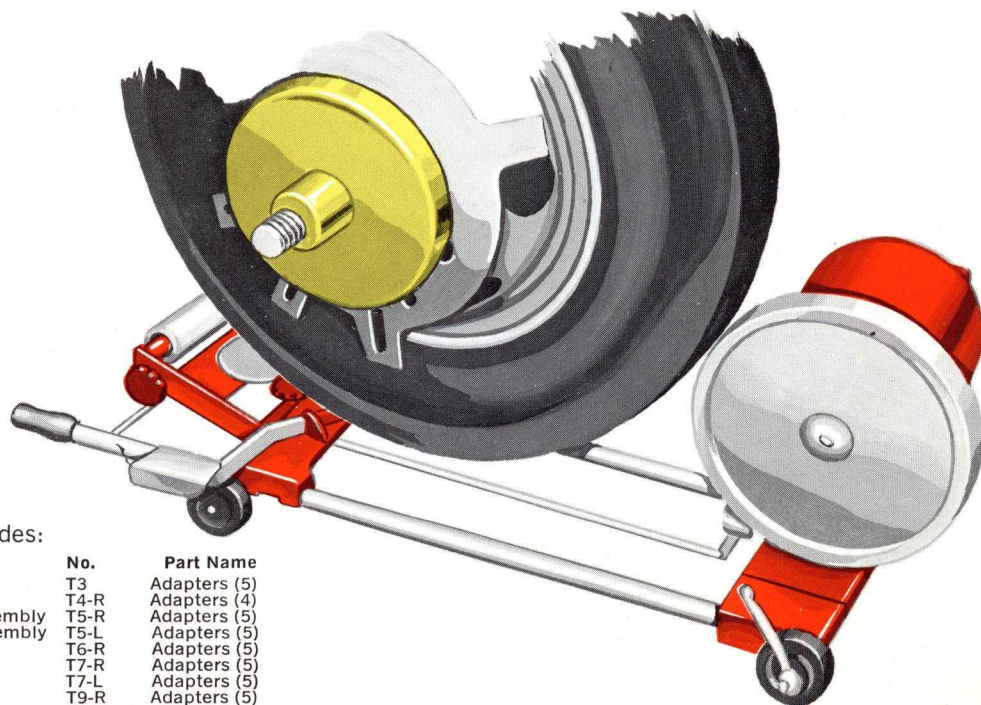
THE GOLDEN "500"

This 330 model has the same ruggedness, precise accuracy and dependability that has been the "official balancer" at the Indianapolis 500 Mile Race since 1931. You get precision static and perfect dynamic "pure" balance every time. Machined shaft, radii cones, self aligning bearings and electrical controls. This "golden" beauty will add prestige, attract attention in your shop.

Shipping Weight 240 lbs.

3166 ON-A-TRUCK WHEEL BALANCER

Heavy duty Balancer to balance up to 22" heavy duty wheel assemblies on the vehicle. Seven H.P. starting torque electric motor powers spinner, 220-440 v. three-phase (220 v. 60 c. single phase, extra charge.) Two-knob control shows amount of weight to add and position of weights.



3166 Service includes:

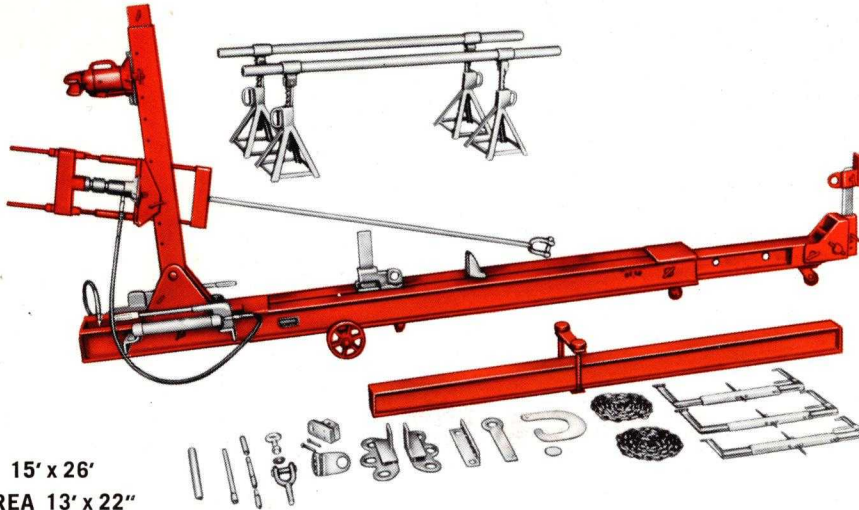
| No. | Part Name | No. | Part Name |
|-------|----------------------|-------|--------------|
| 3160 | Motor Spinner | T3 | Adapters (5) |
| 16423 | Balancing Unit | T4-R | Adapters (4) |
| 20868 | Wheel Plate Assembly | T5-R | Adapters (5) |
| 17184 | Wheel Plate Assembly | T5-L | Adapters (5) |
| X333 | Weight Remover | T6-R | Adapters (5) |
| 16338 | Run Out Gauge | T7-R | Adapters (5) |
| 16298 | Large Nuts (4) | T7-L | Adapters (5) |
| 15989 | Washers (4) | T9-R | Adapters (5) |
| 15991 | Adapters (3) | T9-L | Adapters (5) |
| 16304 | Service Stand | T10-R | Adapters (5) |
| 18740 | Jiggler | T11-R | Adapters (5) |
| 18885 | 6" Extension | T11-L | Adapters (5) |
| T2 | Adapters (4) | T12 | Adapters (5) |
| | | T21 | Adapters (5) |

Shipping Weight 542 lbs.

Fed. Stock No. 4910-078-4016 (Comm.)

Fed. Stock No. 4910-279-0629 (Mil.)

BODY FRAME OUTFITS AND TOOLS



WORK AREA 15' x 26'
STORAGE AREA 13' x 22"

120 BEARCAT® SERVICE

A powerful, Portable Body-Frame service that offers "Dual Pulls." Pull Yoke permits continuous 10 inch pull with Power Tower in stationary position. Includes three hydraulic power units that provide up to 36 tons of power — tower extensions permit high roof pulls.

120 Service includes:

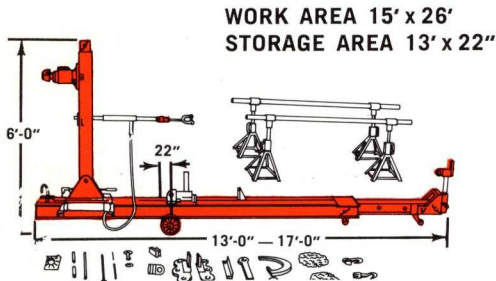
Part Name

Main Beam and Upright Assembly with Extension (1)

Pull Yoke Assembly, Pull Rods and Extensions (1)
Twist Beam Assembly (1)
Flex-O-Power Units (2)
12-Ton Hydraulic Jack (1)
Car Supports and Stands (2)
Set of 3 Frame Centering Gauges (1)
Body-Frame Clamp (1)
3½" Pinch Weld Clamp (1)
8" Pinch Weld Clamps (2)
Panel Pull Plate (1)
Frame Pull Plate (1)
Body Hook Assembly (1)
¾" 10 ft. Pull Chains (2)

Shipping Weight 1,324 lbs.

Recommended work area is 15' x 26' — Service stores in a 13' x 22" space.

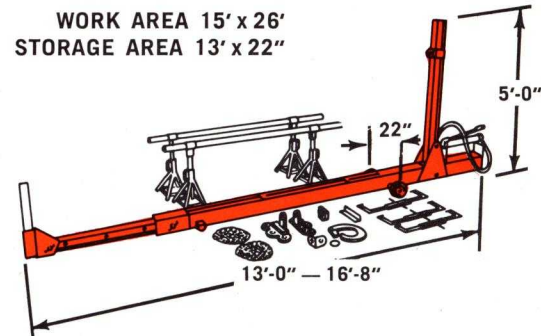


WORK AREA 15' x 26'
STORAGE AREA 13' x 22"

120P BEARCAT® SERVICE

Basically same as the 120 except that 8-Ton Pull Jack and Extensions replace Pull Yoke Assembly. Twist Beam Assembly and set of 3 Tram Gauges not included.

Shipping Weight 1,270 lbs.



WORK AREA 15' x 26'
STORAGE AREA 13' x 22"

118 BEARCAT® SERVICE

Next in line to the Super 120 Service but more rugged than most competitive units. Does not have Twist beam, which may be added as optional equipment.

118 Service includes:

Part Name

Main Beam and Upright Assembly, with Extension (1)
Car Support and Stands (2)
Pump Hose Ram Assembly (1)
Set of 3 Frame Centering Gauges (1)
Body-Frame Clamp (1)
3½" Pinch Weld Clamp (1)
8" Pinch Weld Clamps (2)
Panel Pull Plate (1)
Body Hook Assembly (1)
¾" 10 ft. Pull Chains (2)

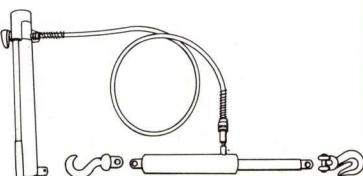
Shipping Weight 770 lbs.

81 PULL JACK UNIT

8-ton Hydraulic Pull Jack includes:

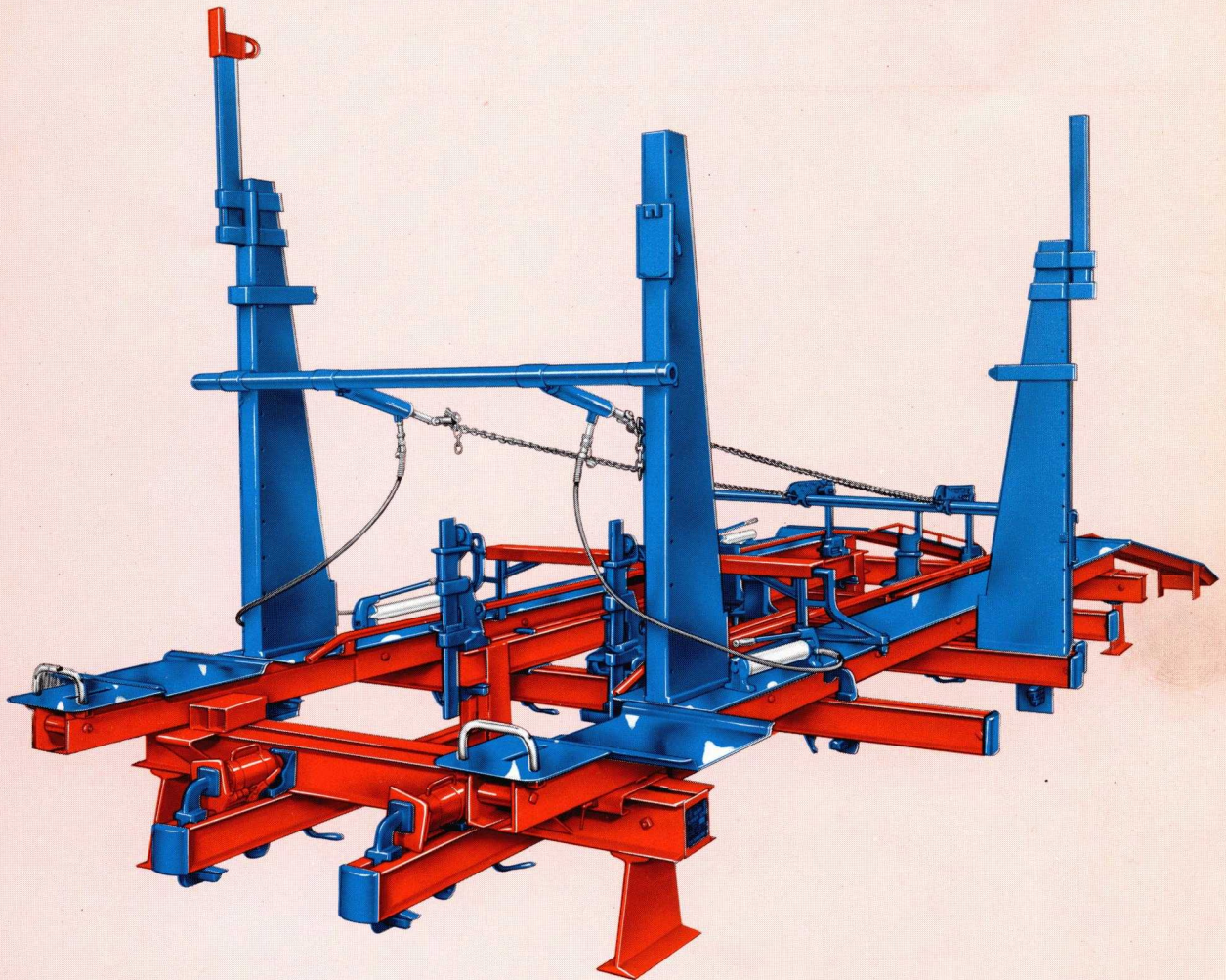
| No. | Part Name |
|-------|------------------------|
| 22112 | Pump Hose Ram Assembly |
| 22000 | ½" Slip Hook |
| 22084 | ½" Grab Hook |
| 22083 | Pins (2) |

Shipping Weight 56 lbs.



no. **1** in

Body-frame outfits



FAST ACTION FRAME and BODY
CORRECTIONS MADE SIMULTANEOUSLY

Exclusive POWER TOWERS and
4-WAY STRETCHING PULLS AT ONE TIME

108-86 Super BEARCAT

Easy — safe — accurate and extra profitable to use with exclusive Power Towers and 4-way stretching pulls at one time. Corrects many cars that are considered "totaled out" by competitors! Currently revolutionizing the body-frame repair business! Easily handles unitized — Compact — Import — Conventional Chassis — Light Trucks. Exclusive "stretch-Pull" Method prevents buckling and damage . . . restores frame and sheet



New Frame Centering and Datum Line Gauge

Pit installation requires maximum work area of 15' x 28' — floor rack model requires 15' x 36'.

Available for floor or pit installation. No. 105 Electro-Hydraulic Power Pack also available.

108-86 Service includes:

| No. | Part Name | No. | Part Name |
|-----|----------------------|-----------|---------------------|
| 102 | Frame Rack | 50 | Tracking Gauge |
| 104 | Frame Attachments | 86 | Flex-O-Power Set |
| 106 | Body Attachments | 81 | Pull Jack Units (2) |
| 10C | Alignment Gauge | W125-W126 | 12-ton Hydraulic |
| 92A | Body Frame Gauge Set | | Jacks (2) |

Shipping Weight 6,752 lbs.

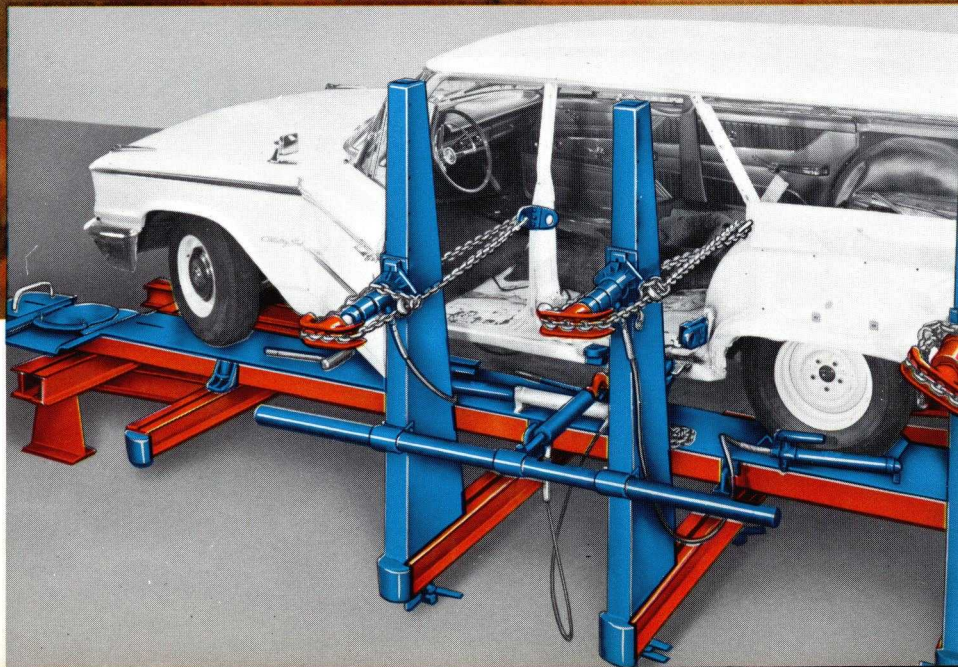
Example of four simultaneously at side of this station with jacks plus the extra jack is being

metal at the same time. New reversible pinch weld clamps outlast others two to one! Recommended by many insurance companies . . . a big source of extra business! Reinforced slotted runways permit placing power towers exactly where needed. Includes two exclusive 8-ton pull jacks. Power towers eliminate booby trap hookups . . . permit pulling at all levels and angles . . . safely! 52 tons of hydraulic power!

*Fast action frame and
body corrections
simultaneously*



body-frame pulls being made
on wagon. Three Power Towers
the new 8-ton Pull Jack . . . one
used in this illustration.



BODY FRAME TOOLS

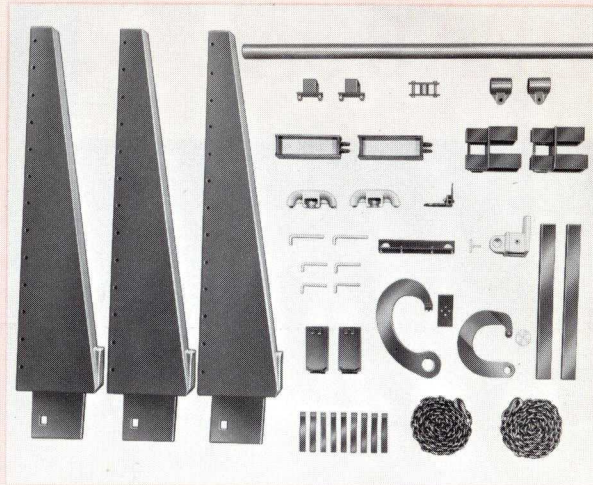
106 BODY ATTACHMENTS

Specially designed for the 102 Rack and included in the 108-86 Service, the 106 Body Attachments permit correcting body and frame simultaneously.

106 Service includes:

| No. | Part Name | No. | Part Name |
|-------|---------------------|--------|-----------------------|
| 17314 | Side Post | 18926 | Push-Pull Adapter (1) |
| 12 | Assemblies (3) | 18942 | T Pin (1) |
| 17292 | Wedges (9) | B36 | Jack Holders (2) |
| | Jack Hanger | 18905 | 3 1/2" Pinch Weld |
| | Assemblies (2) | | Clamps (1) |
| 19671 | L Pins (4) | 21996 | Pull Ram Yokes (2) |
| 20077 | L Pins (2) | 21983 | Body Standard |
| 18579 | 3/8" 10' Chains (2) | | Extensions (2) |
| 17331 | Body Hook | 21994 | Body Sleeve |
| | Assembly (1) | | Connectors (2) |
| 19524 | Body Hook | 22125 | Double End Clevis (1) |
| | Assembly (1) | 21991 | Ram Sleeve |
| F12 | Bars (2) | | Connectors (2) |
| 19534 | Panel Pull Plate | 18501A | 78" Pipe (1) |
| | Assembly (1) | | |

Shipping Weight 632 lbs.



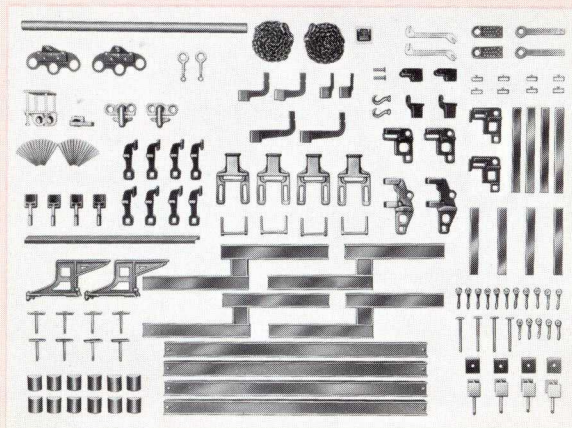
104 FRAME ATTACHMENTS

Specially engineered for the 102 Rack and included in the 108-86 Service. Includes all essential components for correcting car frames to manufacturer's specifications.

104 Service includes:

| No. | Part Name | No. | Part Name |
|-------|----------------------|--------|------------------------|
| 4643 | Beam Caps (12) | 7560 | Pull Hook (2) |
| 52BA | Hanger Plate | 7567 | Bracket Head (2) |
| | Assemblies (8) | 22107 | Pin (2) |
| 17283 | Transverse Beams (4) | 6706 | U Head (2) |
| 17113 | Step Beams (4) | 6700 | Adjustable Bar |
| 6709 | Step Beam Hanger | | (short) (4) |
| | Assemblies (4) | F12 | Adjustable Bar |
| 7500 | Side Plates (4) | | (long) (4) |
| 6736 | T Bolts (4) | 6731 | Bar Lock (8) |
| 52BAA | Hanger Handles (16) | 1800 | Frame Clamp (1) |
| 22404 | Safety Stand (2) | 18335 | Body-Frame Clamp (1) |
| 22484 | Safety Channel (1) | 7610 | Frame Clamp (2) |
| 7701 | Jack Head (4) | 18903 | 8" Pinch Weld |
| 6705 | Jack Lock (8) | | Clamp (2) |
| 12 | Wedge (30) | 18501A | Pipe — 78" long (1) |
| 1834 | U Bar (4) | 4 | Eyebolt (2) |
| 7504 | Upright Standard (4) | 18579 | 3/8-10' Chain (2) |
| 7507 | Extended Head (2) | 5181 | Name Plate (1) |
| 1778 | Head (2) | FW1 | Flange Wrench (2) |
| 50F | Head (2) | 4886 | Frame Plate (2) |
| 6486 | Front End Pull | 6493 | Frame Plate (2) |
| | Standard (2) | 19533 | Upright Bar Holder (2) |
| 6490 | Rear End Pull | | |
| | Standard (2) | | |

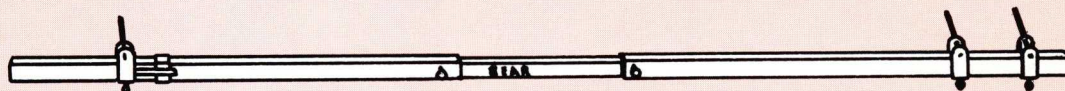
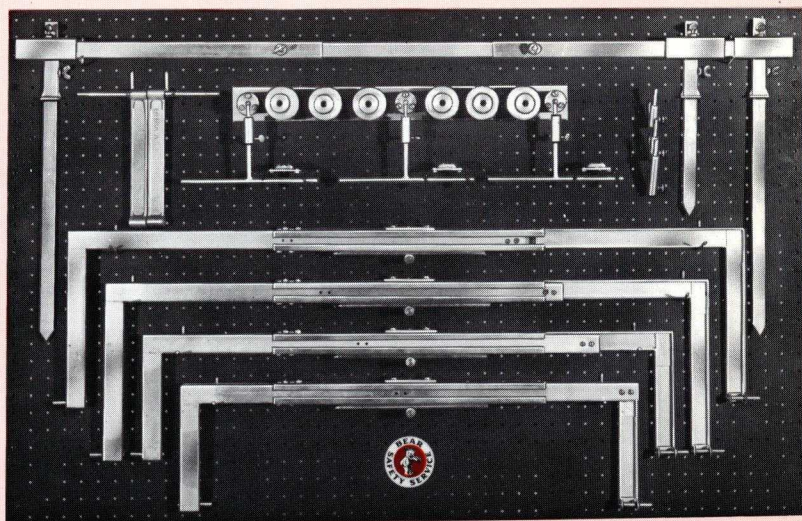
Shipping Weight 2,700 lbs.



92A BODY-FRAME GAUGE SET

Set consists of all gauges necessary to accurately measure and diagnose body and frame collision damage for all conventional frame and unitized vehicles. Special magnetic hangers with larger holes make attaching faster — new swiveling levels speed up and simplify checking. Included with 108-86 Service — set comes complete with Tool Board and hanging fixtures.

Shipping Weight 54 lbs.



50 & 51 WHEEL TRACKING GAUGES

Telescoping metal tube adjusts to all car lengths. Reveals diamond or swayed frames and for squaring up car all around. Misalignment shows on easy-to-read scale. Three point contact assures accuracy — use 50 with 10C Alinement Gauge to demonstrate why wheels fail to track. For all passenger cars and light trucks.

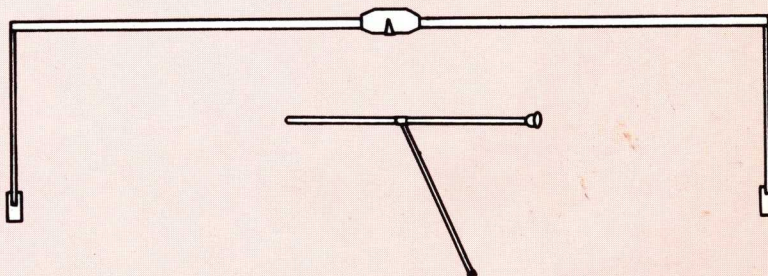
Shipping Weight 15 lbs.

51 Gauge for all heavy trucks and buses. Shipping Weight 20 lbs.

17857 TRAILER TRACKING GAUGE

Attaches to trailer pivot, shows on easy-to-read tape measure if tow plate is correctly centered. Sighting bars line up with trailer wheels when tracking is correct.

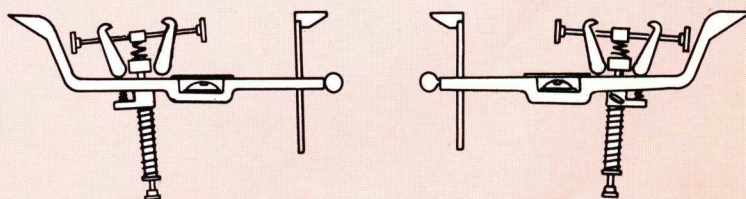
Shipping Weight 5 lbs.



68 TORSION BAR HEIGHT GAUGES

Set of Gauges essential for checking height and making adjustments on torsion bar front suspension members. Direct reading gauges show heights of each side to make possible accurate adjustment to car factory specifications.

Shipping Weight 6 lbs.



SIMPLIFIED SYSTEMS

CHECK-O-MATIC®

Fast action alinement correction system

BEAR MAGNETIC GAUGE SET WITH CHECK-O-MATIC®

Car factory approved settings for all U. S. cars — at-a-glance! Ends reference to complicated "spec" charts — no mathematics — no guess-work! Templates tell you at-a-glance whether caster and camber are OK! They tell you where and how much to adjust to make it OK!

The magnetic Caster-Camber Gauge and Check-O-Matic Templates are all contained in a sturdy metal carrying case. Handles all cars — compacts, imports, passenger cars — and has special clamp adapter for all trucks and special wheels.

27AC MAGNETIC GAUGE with CHECK-O-MATIC®

27 Magnetic Gauge and complete set of Check-O-Matic Templates in handy all-metal carrying case. Includes complete instructions, magnetic and clamp attachment for 27 Gauge.

Shipping Weight 10 lbs.

27C MAGNETIC GAUGE with CHECK-O-MATIC®

Same as 27AC set above but does not include the metal carrying case.

Shipping Weight 7 lbs.



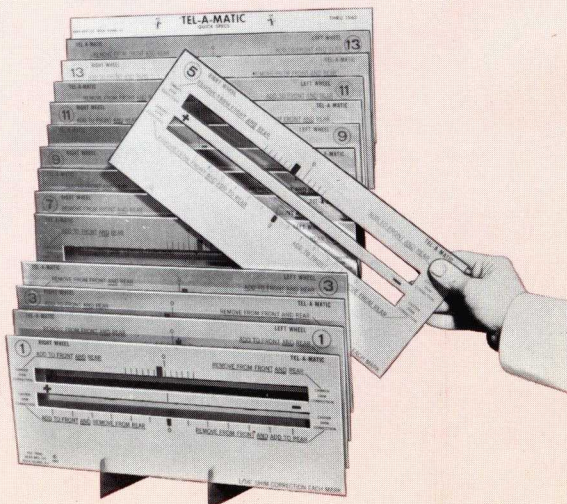
TEL-A-MATIC®

FAST ACTION Templates for use with Split-Screen Telaliner Units

20005 TEL-A-MATIC® TEMPLATE SET

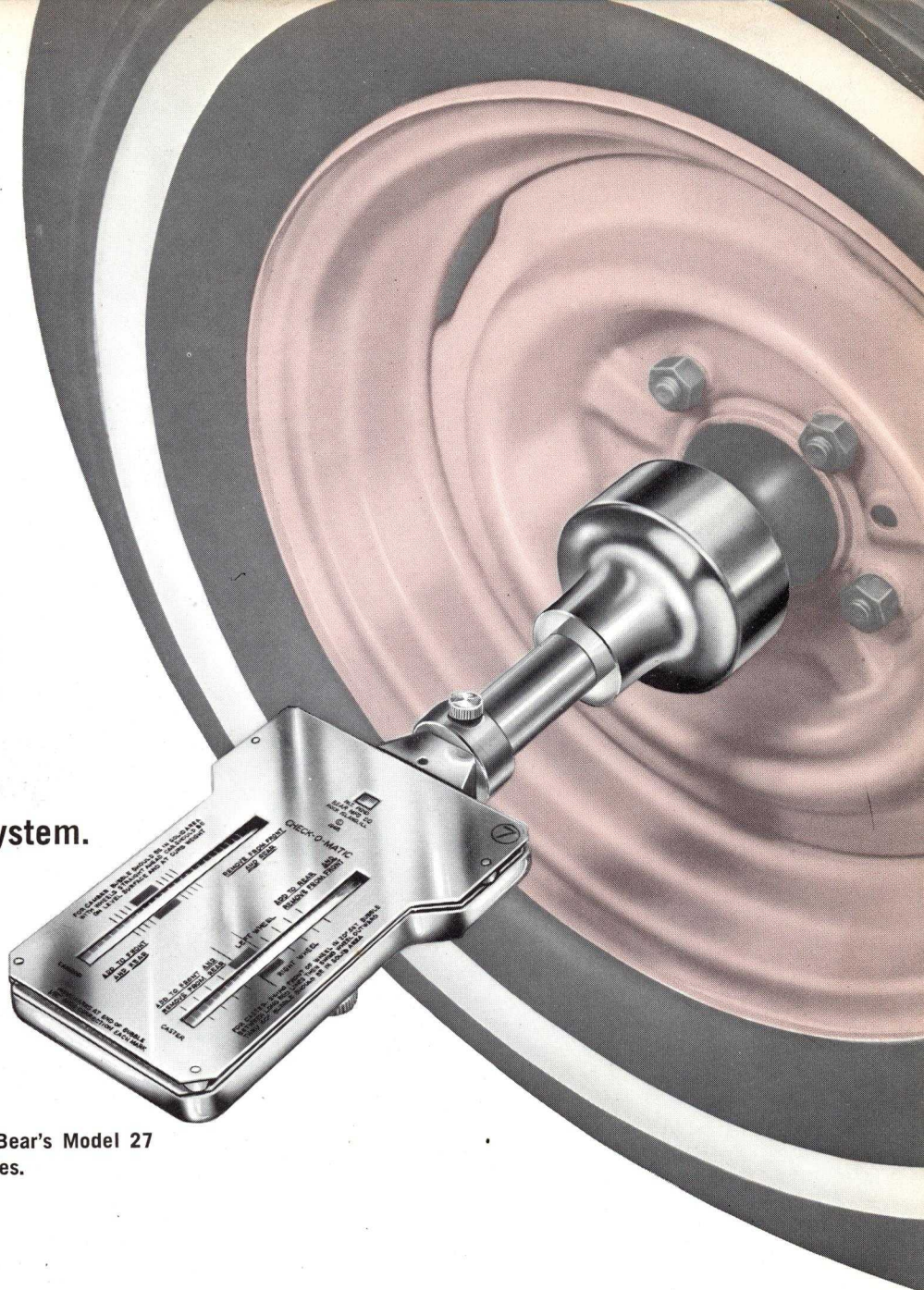
Complete set of Templates for use with all Bear Telaliner Services. Solid area on Tel-A-Matic show car-factory-approved settings for caster and camber. When indicator light on Telaliner lines up with solid area, settings are OK. Complete Set of Templates for all U. S. cars come in all-metal indexed holder.

Shipping Weight 8 lbs.

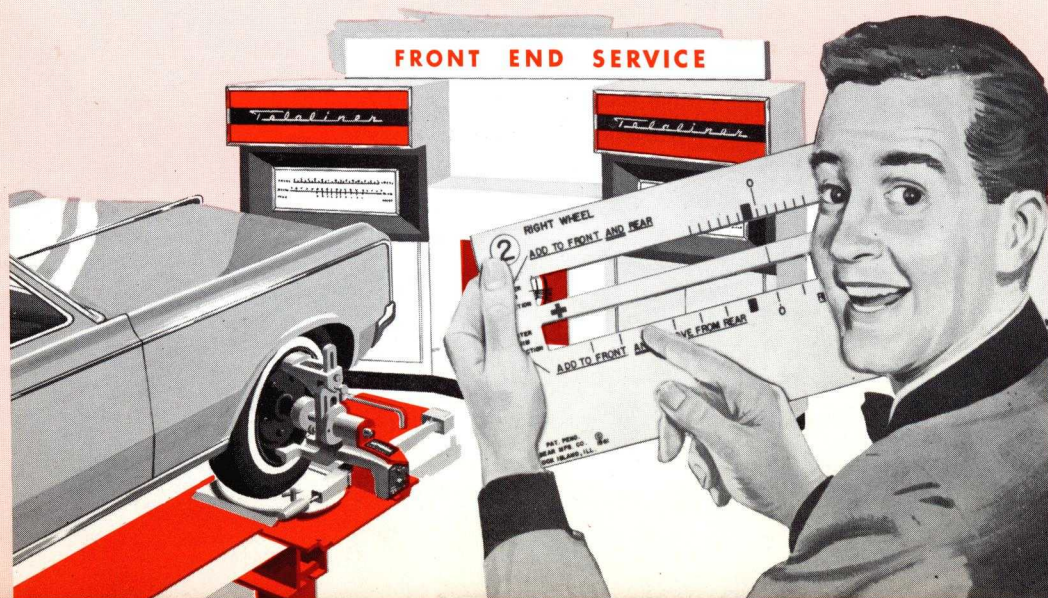


You line
up to the
highest approved
standards of
wheel alinement
for all four wheels
when you use this
proven

BEAR® system.



CHECK-O-MATIC® used with Bear's Model 27
Magnetic Caster-Camber Gauges.





401P PORTALINER® SERVICE

All metal cabinet with rubber tread wheels is finished in baked on synthetic red enamel and decorated with polished extruded aluminum trim. Internally illuminated sign attracts customers.

Convenient tool display background plus base cabinet storage for radius plates, shim supply, etc.

401P Service includes:

| No. | Part Name | No. | Part Name |
|-------|---------------------|-----------|--------------------|
| 50692 | Portaliners Cabinet | 19616 | Check-O-Matic |
| 41 | Turning Radius | | Templates (2) |
| | Gauge (2) | 27-20053A | Adapters (2) |
| 200 | Projector | 63 | Car Level Gauge |
| 17 | Steering Wheel | X334 | Hubcap Tool |
| | Holder | 8222 | Alignment Tool Set |
| 27 | Magnetic Caster | 17892 | Shim Assortment |
| | Camber Gauge (2) | 22940 | Ford-Mercury Tool |

Shipping Weight 270 lbs.

no. **1** in



Portable alinement



One of The Profit Twins

DISPLAY, BEAUTY, PORTABLE EFFICIENCY

The new Portaliner 401 provides professional operation with total gauges and tools to do the job at low cost in a compact area. A brilliant electric Front End Service sign tops and illuminates a metal peg board tool

display. Base cabinet gives you work counter with ample storage space. Rubber tired 3" casters give quick roll-away action. Width 42", Depth 20", Height 59".

Shipping Weight 270 lbs.

new **PROJECTOR**



MODEL 202

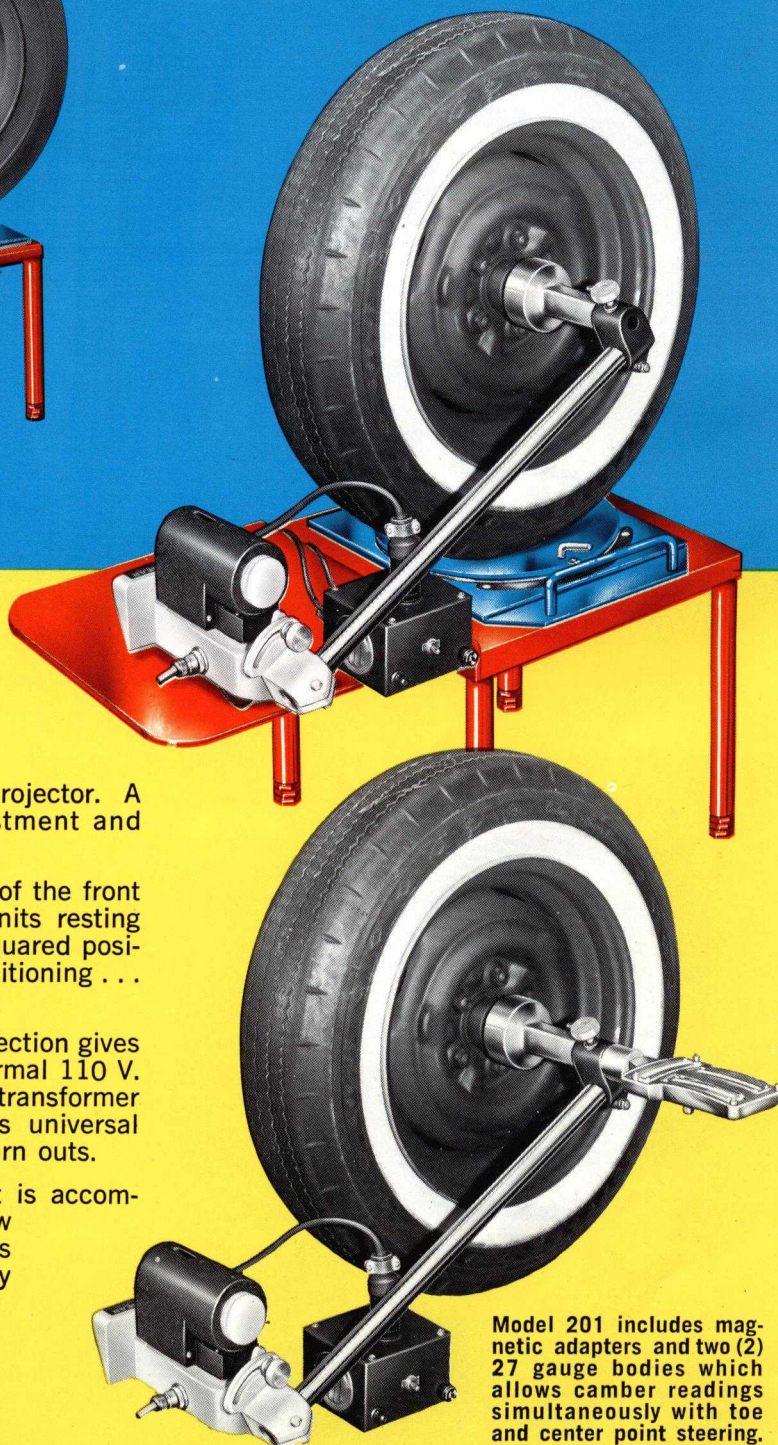
An accurate, easy-to-use optical-projector. A precise toe measurement, adjustment and wheel centering device.

Attached to the machined surface of the front wheel hubs with the projection units resting solidly on rotating balls assures squared position and eliminates up or down positioning . . . saves time.

Use of standard auto bulbs for projection gives fast, economical maintenance. Normal 110 V. wall socket electrical source to a transformer with switch and pilot light makes universal installation easy and eliminates burn outs.

Vertical and horizontal adjustment is accomplished by simple top thumb screw and calibration holes in the housings . . . leveling bubble completes easy vertical and horizontal positioning.

Model 200 same as 202 less magnetic adapters and 203 has a rim clamp assembly.



Model 201 includes magnetic adapters and two (2) 27 gauge bodies which allows camber readings simultaneously with toe and center point steering.

PORTABLE SERVICE



6D TOE and CENTERING GAUGE

A precision gauge for checking "toe" measurements and setting "Center Point Steering" on all cars. Adjusts to standard tread width. Used in combination with the 27 Magnetic Gauge.

402 PORTALINER® SERVICE

Same as 401 Service described on page 35 but includes the following additional equipment:

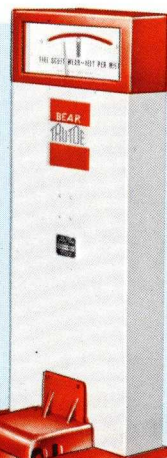
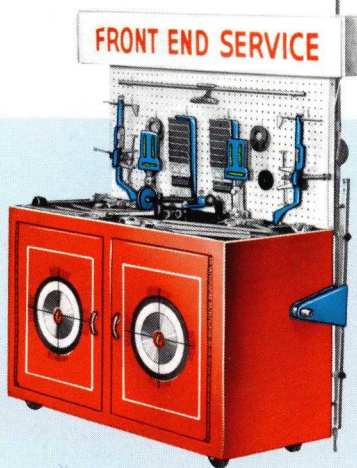
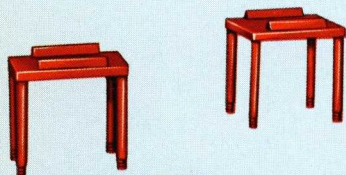
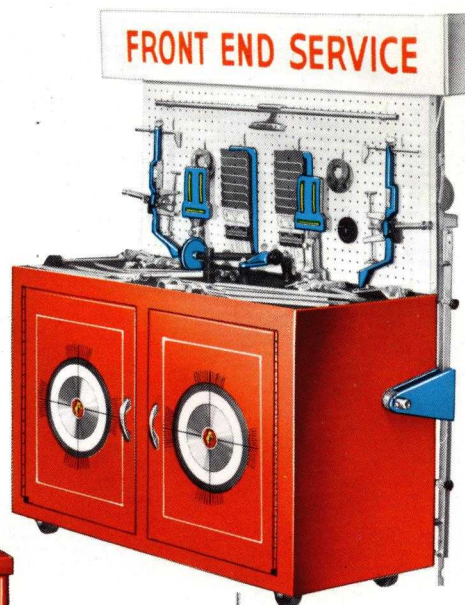
| No. | Part Name |
|-----|-------------------------------|
| 170 | 8" Wheel Stands (set of four) |
| 68 | Torsion Bar Height Gauge |

Order 402P if Projectoe — (less 6D) and model 171 wheel stands with front shelf are desired.

403 PORTALINER® SERVICE

Same as the 402 Service but has four 16" No. 172 Wheel Stands in place of the 8" Wheel Stands.

Order 403P if Projectoe — (less 6D) and model 173 wheel stands with front shelf are desired.



405 PORTALINER® SERVICE

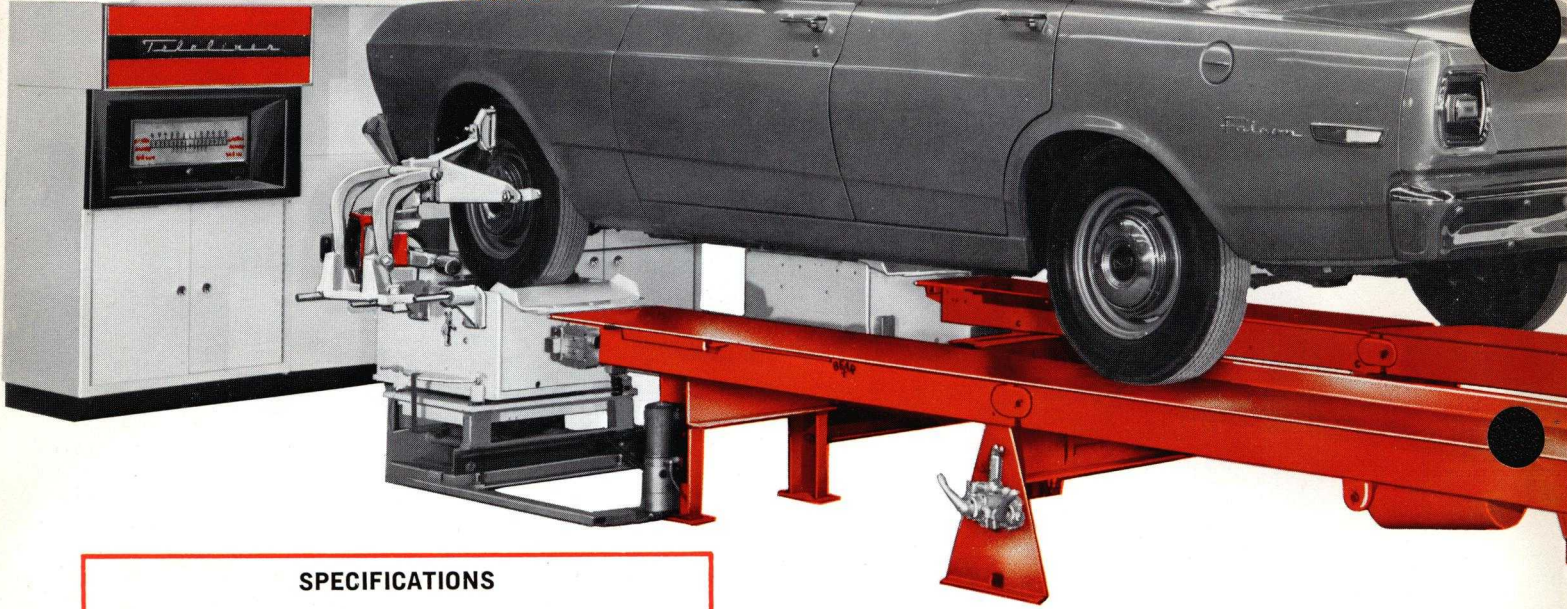
Same as the 402 Service described above but includes the 240 Drive-Over Alignment Tester, and does not include 6D Toe Gauge or 17 Steering Wheel Holder.

406 PORTALINER® SERVICE

Same as the 405 Service but has four 16" No. 172 Wheel Stands in place of the 8" Wheel Stands.

DYN-A-LYZER

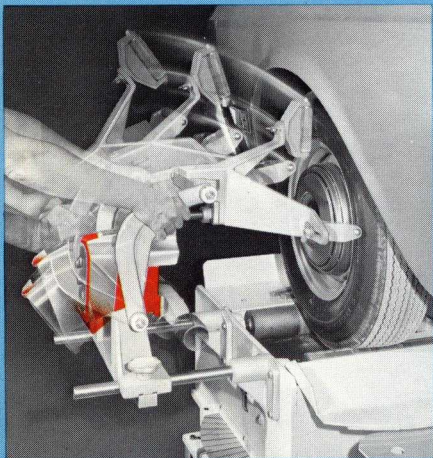
FRONT END SERVICE



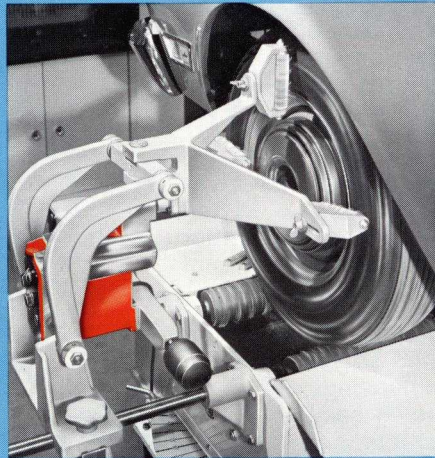
SPECIFICATIONS

| Model 1000 Rack Type | | Model 1005 Lane Type | |
|----------------------|--------|----------------------|-----------|
| Width | 12' 8" | Width | 12' 8" |
| Depth | 2' 3" | Depth | 2' 3" |
| Length | 3' 0" | Length | 3' 4" |
| | | Shipping Wgt. | 1800 lbs. |

NEW Dyn-A-Lyzer[®]... wheel alinement DIAGNOSIS!

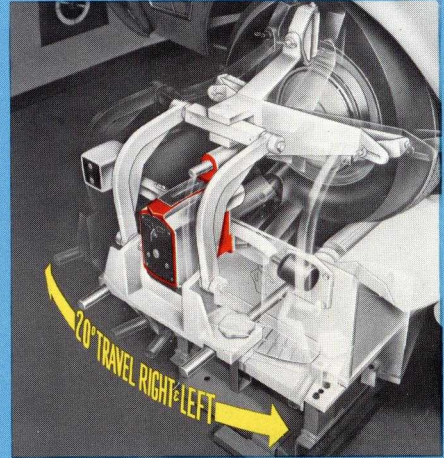


Completely new in this industry are these "measuring arms" that automatically find true position on the contour of any size tire-wheel assembly. Awkward, time consuming hub or rim adaptors are passe. These "arms" swing out of the way or into wheel contact position with easy, fast push-pull action.



Unique power driven rolls rotate the front wheels to allow measurements under normal road-load conditions.

Center point steering is located automatically and the revolving wheels eliminate the need for checking wheel run-out.



A FLIP OF A SWITCH TURNS THE WHEELS IN AND OUT FOR IMMEDIATE CASTER READINGS!

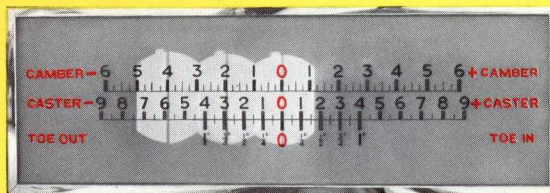
The DYN-A-LYZER is adjustable to any normal rack height or pit depth. It will operate with TELALINER Models 630, 631, 632, 633 or 634.

DYN-A-LYZER

checks all alinement angles...complete front end geometry analysis in less than three minutes...accurately!

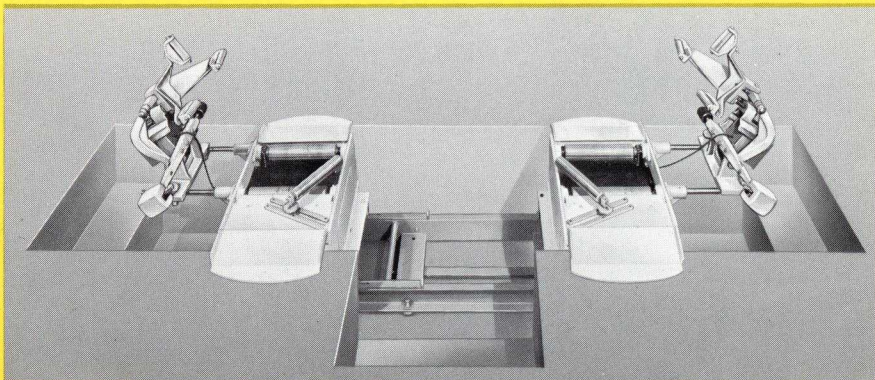
CAMBER, CASTER, TOE, TURNING RADIUS, STEERING WHEEL CENTERING AND TRACKING PRECISELY MEASURED.

Human error is eliminated by electronics combined in the "rolling wheel" DYN-A-LYZER and the space age "wide screen" TELALINER! True car-wheel positioning and shake down is accomplished automatically.



The motor driven rollers rotate the wheels, hydraulic power turns them in and out and the Telaliner view screen "Spot" moves to the precise check or correction point desired.

the ultimate in fast, precision



IDEAL FOR DIAGNOSTIC LANE OR BAY! Drive through or drive in back out operations can benefit from this sophisticated yet highly practical unit.



PIT RACK, FLOOR RACK OR DRIVE-OVER FLUSH INSTALLATIONS CAN BE MADE. This truly revolutionary DYN-A-LYZER can be added to your present rack regardless of make or model with only minor alterations.

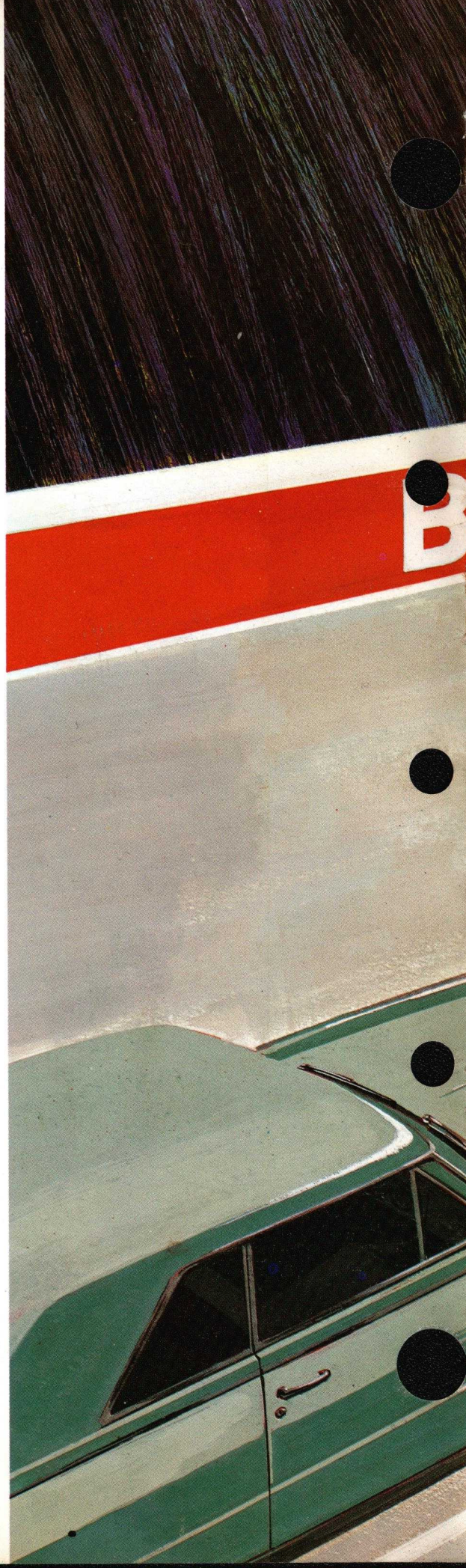
We call action testing **Actionalysis**

BEAR DIAGNOSTIC SERVICES can be called by any name that means precise accuracy with flexibility and ease of operation.

Your customers can see the action, understand the tests as they are made.

Diagnosis of a vehicle is PERFORMANCE TESTING . . . safety performance, economy performance, power performance and comfort performance. Bear provides equipment to action test . . . dynamometers to action test engines, transmissions, drive lines, speedometers and brake action under load . . . actual road conditions. Tire wear factors and steering capabilities are action tested. Even headlights are tested by the action of sensitive photo-electric cells.

Action advertising and sales promotion materials are part of the Bear package. Explanatory units and ideas assure customer understanding and satisfaction. Even analysis forms to speed up procedures and customer consultation forms to help sell more workshop repairs are part of all BEAR DIAGNOSTIC SERVICES.



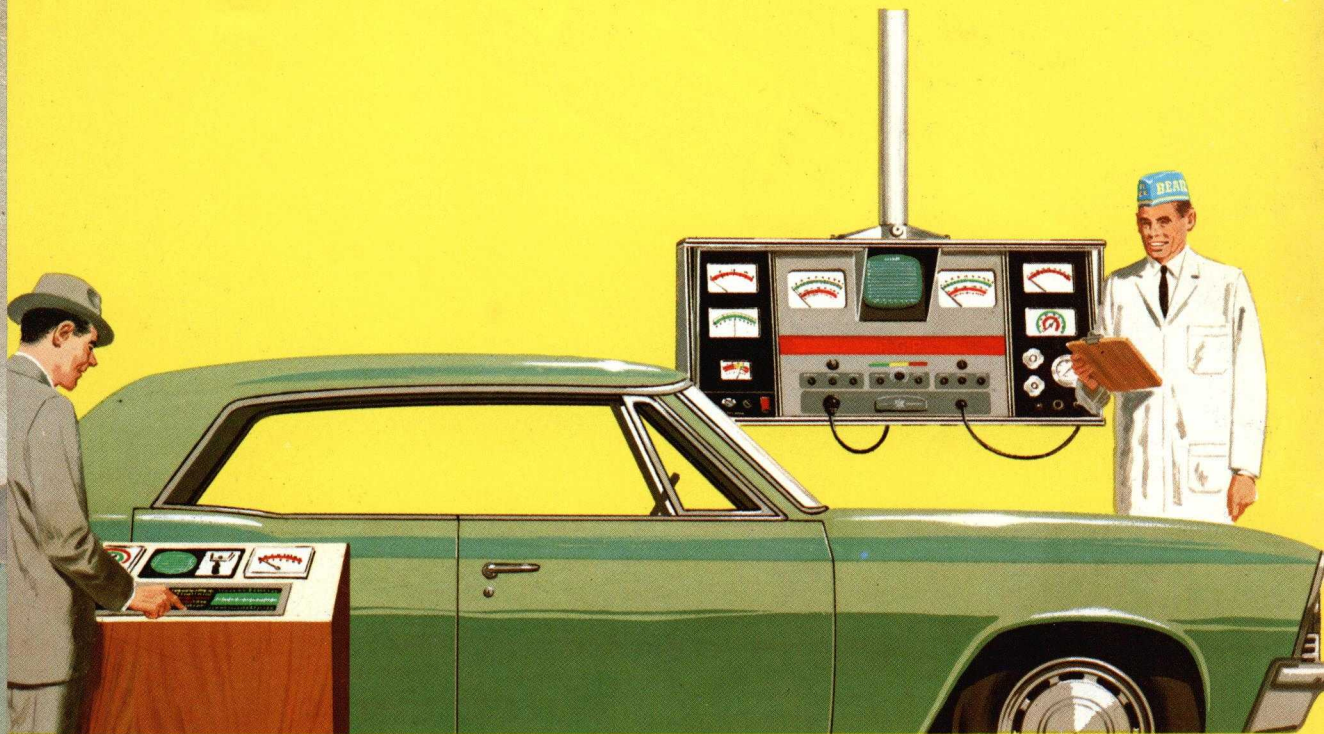
no.

1

in

Diagnostic action

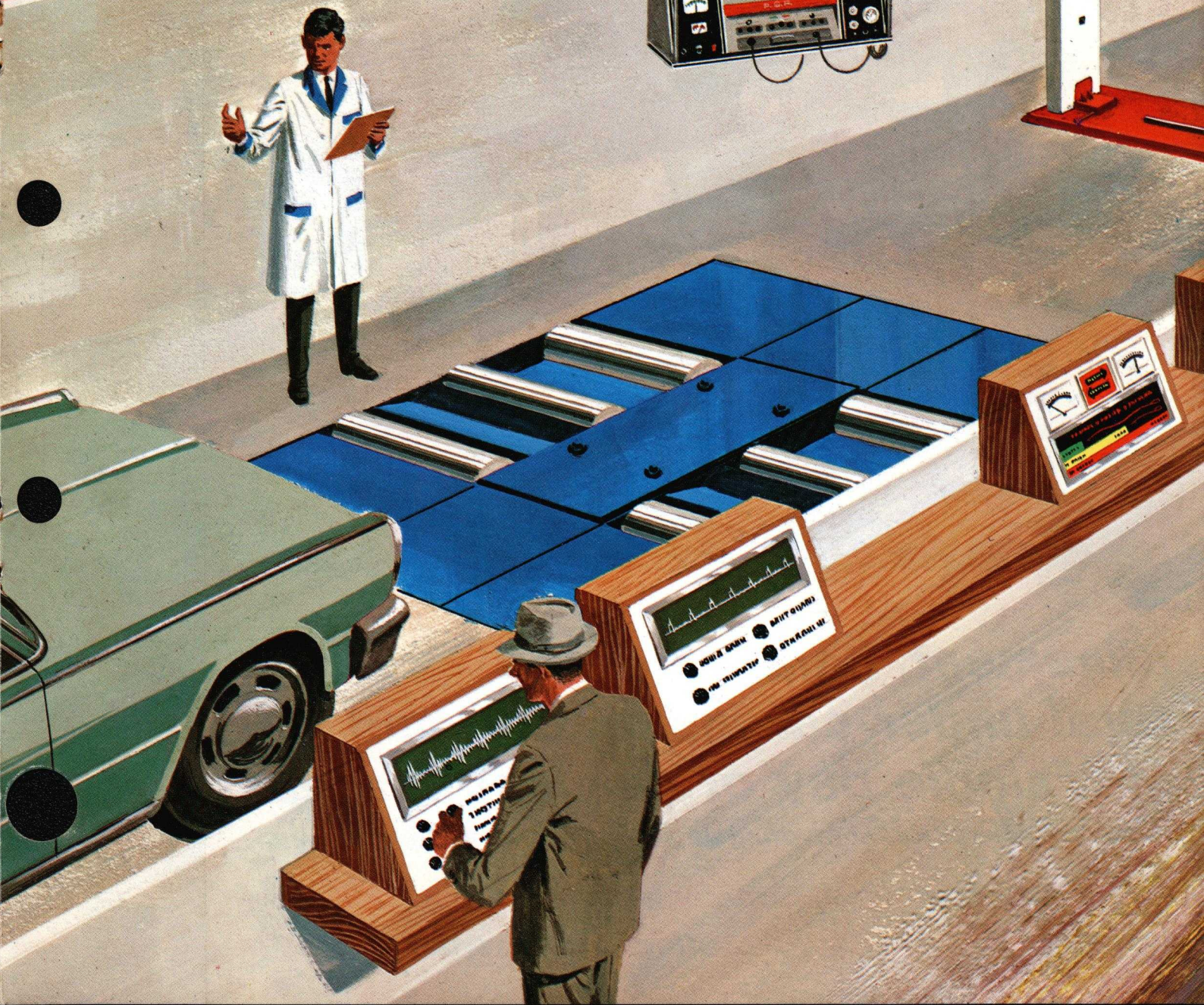
"OVER FIFTY YEARS OF PIONEERING AUTOMOTIVE SAFETY SERVICES WITH PRECISION EQUIPMENT GIVES BEAR THE EDGE IN DIAGNOSIS . . . MAKES IT THE LEADER IN WORKSHOP REPAIR WHERE THE MONEY IS MADE!"



**TAILORED TO FIT
FAST ACTION TEST LANES**

to meet your personal requirements

EAR ACTIONALYSIS DIAGNOSTIC





CENTER

Whether your present or planned location and budget allows a complete drive-thru lane, a drive-in-back out lane, diagnostic bays or diagnosis and repair in the same bay or bays Bear has a plan for you.

**SEE YOUR BEAR REPRESENTATIVE OR
WRITE BEAR MANUFACTURING
COMPANY FOR DETAILS.**

DIAGNOSTIC RUNWAYS

**to perform analysis and repair!
a small investment to make big money.**



SPECIFICATIONS

Model 510 Diagnostic Runway

Length 19' 6"
Width 6' 8"
Runway Width 20"
Runway, Center to Center 56"
Shipping Weight 2,425 lbs.

Model 520 Suspension Lift

Lifting Capacity 4,000 lbs.
Shipping Weight 275 lbs.

Model 530 Twin Motor Spinners (Pair)

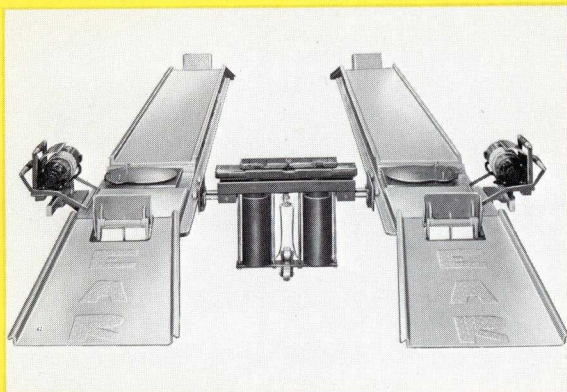
Two 1½ H.P. Motors each side 220 volt
Shipping Weight 150 lbs.

**alinement, balancing and
total under-car inspection and repair
in a single bay or car length area!**

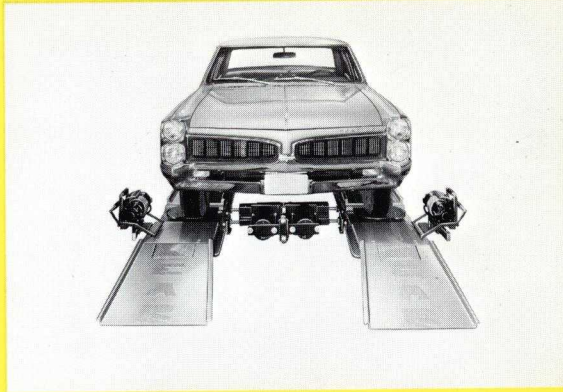
Note 24" retractable leveling legs and extra wide runways.

**add an autorol dynamometer with instrumentation and a headlight
tester...presto, a complete diagnostic/repair center in one bay!**

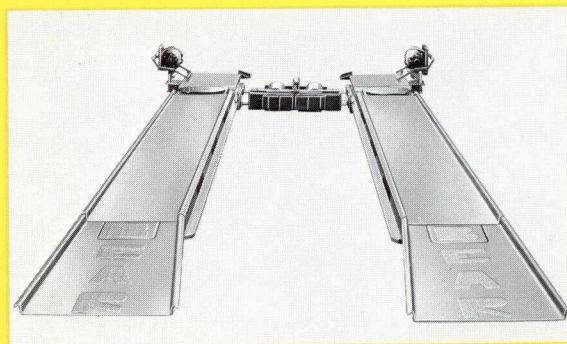
for installed lifts or a complete lift



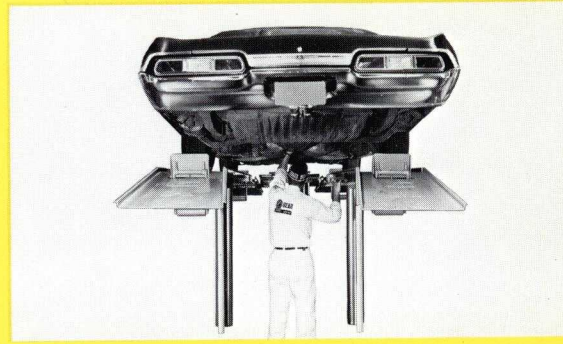
Built in suspension lift and air operated jacks roll the complete length of the runways for raising front or rear ends. Two units are required for single post installations or if it is desirable to raise both ends at one time.



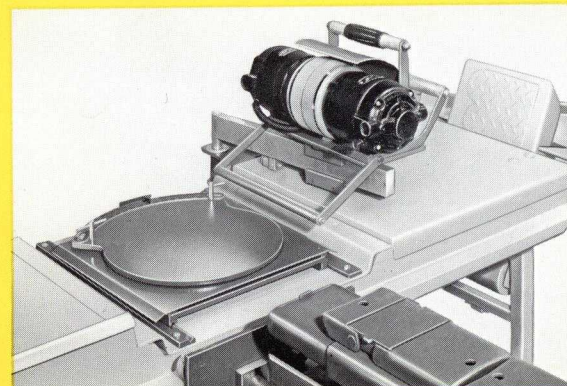
Entire unit lays flat when hoist is down . . . automatically moves to operating position when lift is raised. Lifts either from frame, rear housing or suspension.



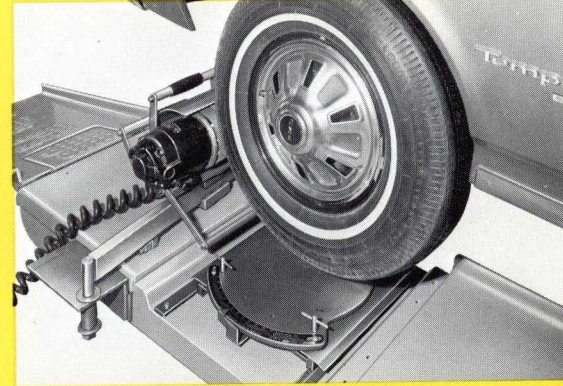
Perfect for Diagnostic Lane or Drive-In, Back-Out operation. Easily handles all tread widths, small truck and passenger car lengths. Can be used with any mechanical or electronic alignment tools and gauges. Runways can be installed on twin or single post lifts. Total twin post lift installation allows convenient wide aisle access under car.



Single station diagnosis and repair of suspension, drive-line, exhaust system, brake system . . . even oil change and lube jobs!
Note automatic front and rear safety stops.



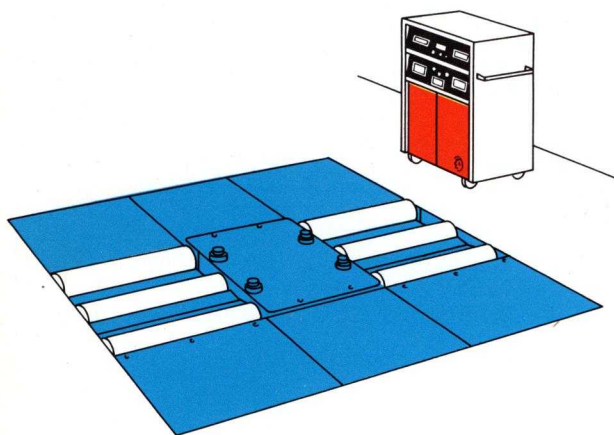
Built in drop pans with turning radius plates assures car positioning and allows wheel alignment diagnosis and correction mechanically or electrically.



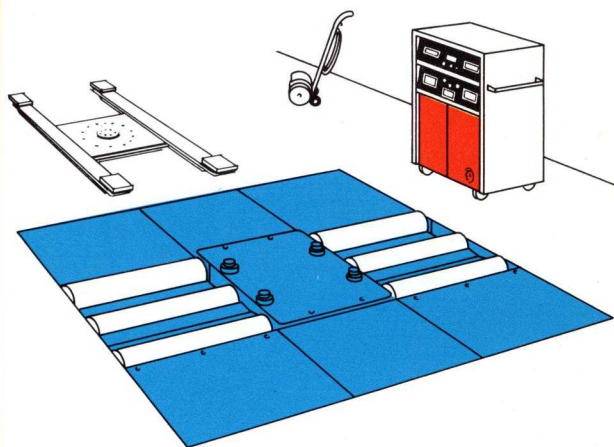
Swing in — swing out right and left powerful dual motor spinners built into the runways will handle the heaviest wheels for balance check and correction at all speeds . . . even those with disc brakes.

DIAGNOSTIC EQUIPMENT

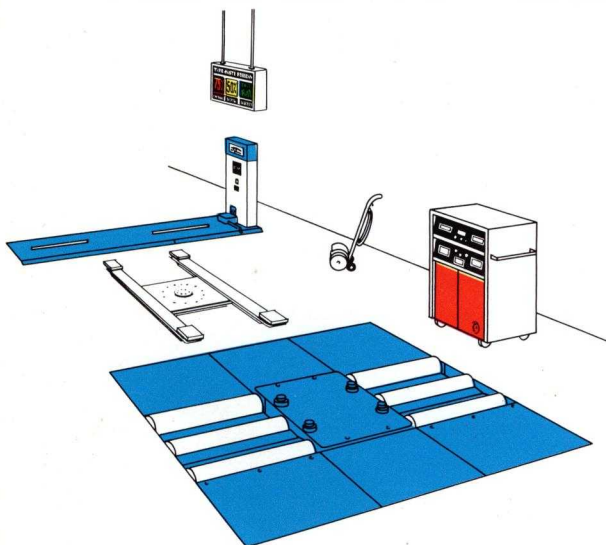
UTILIZE MOST of your Present Equipment and get your shop in the MAINSTREAM of the Automotive Service REVOLUTION.



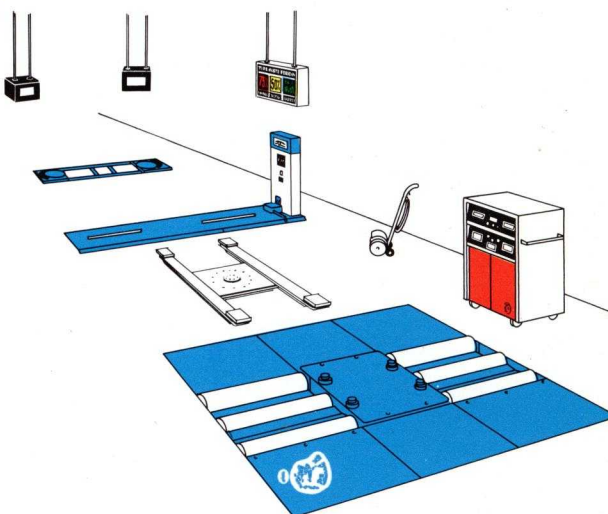
The heart of any diagnostic operation is the Bear Autorol/Brakerol combination dynamometer. Fits in any average bay or even less than average width driveway.



Add a lift for under car inspection and this also gives you an area for inspection of upper body components and accessories. A model 35 wheel spinner allows you test for wheel balance.



Add only the fast action model 246 scuff gauge with brilliant Flash-O-Matic sign. By action forecasting tire waste percentages you will sell more wheel alinement service.



The addition of model 632 rollaway or 631 hanging Telaliner service for suspension and steering control almost gives you complete Diagnostic CarCare . . . a 560 portable or 561 track type headlight tester would complete this total "actionanalysis" center.

AUTOROL/BRAKEROL DYNAMOMETERS

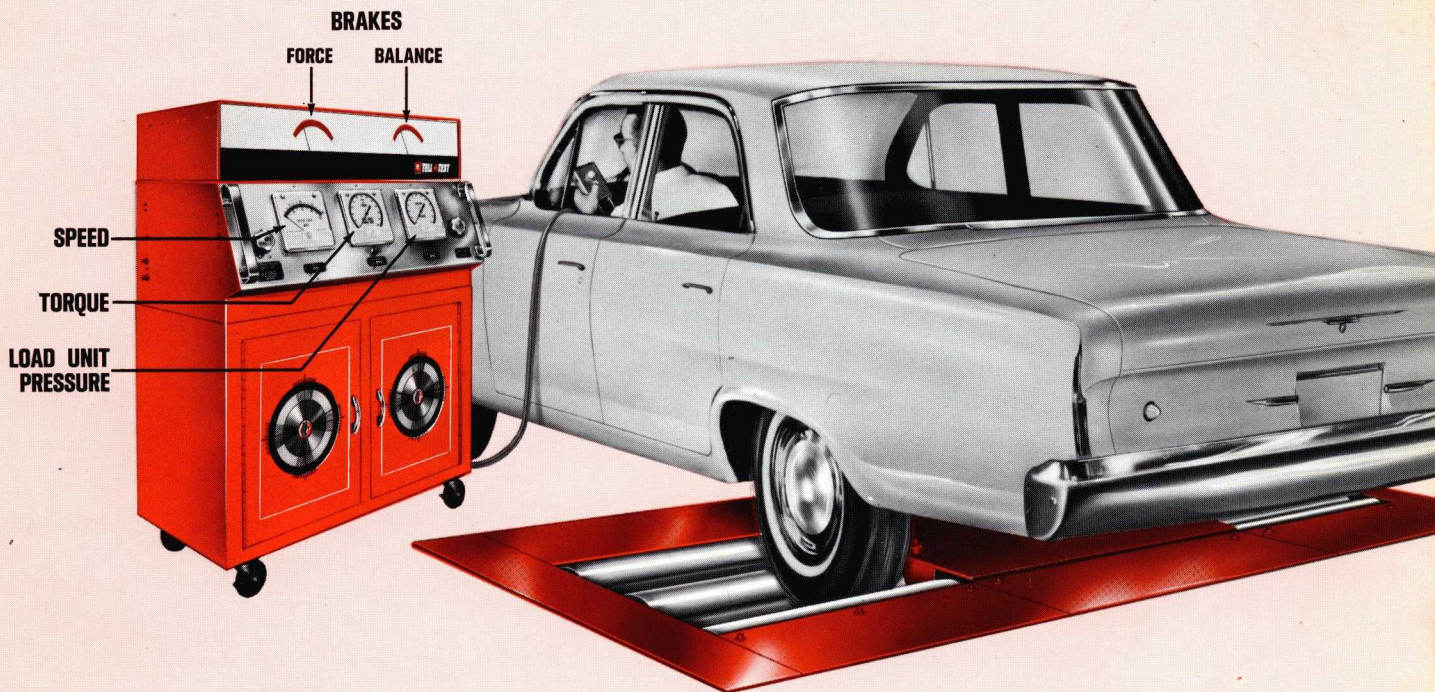
Bear Autorol/Brakerol model 1145

The new Bear Autorol/Brakerol Action tests brakes and engine under simulated road-load conditions at all road speeds with dynamometer accuracy. Brake power and equalization are measured with precision FAST. Engine performance is determined at all road speeds safely, accurately, precisely . . . no guesswork. Torque output at the rear wheels, timing, ignition, carburetion, speedometer and shift patterns are analyzed FAST under actual driving conditions. Exact brake force and balance measurements are made under electric motor load. REPAIRS and CORRECTIONS can be PROVED . . . customer satisfaction assured.

The Bear Autorol/Brakerol is amazingly powerful, rugged and far easier to operate than a conventional (engine only) dynamometer. Easy to install and inexpensive to operate, this combination unit puts you in the mainstream of the automotive service revolution . . . provides you the "space age" service of the future . . . functional and operating details are described under the following Autorol® pages.

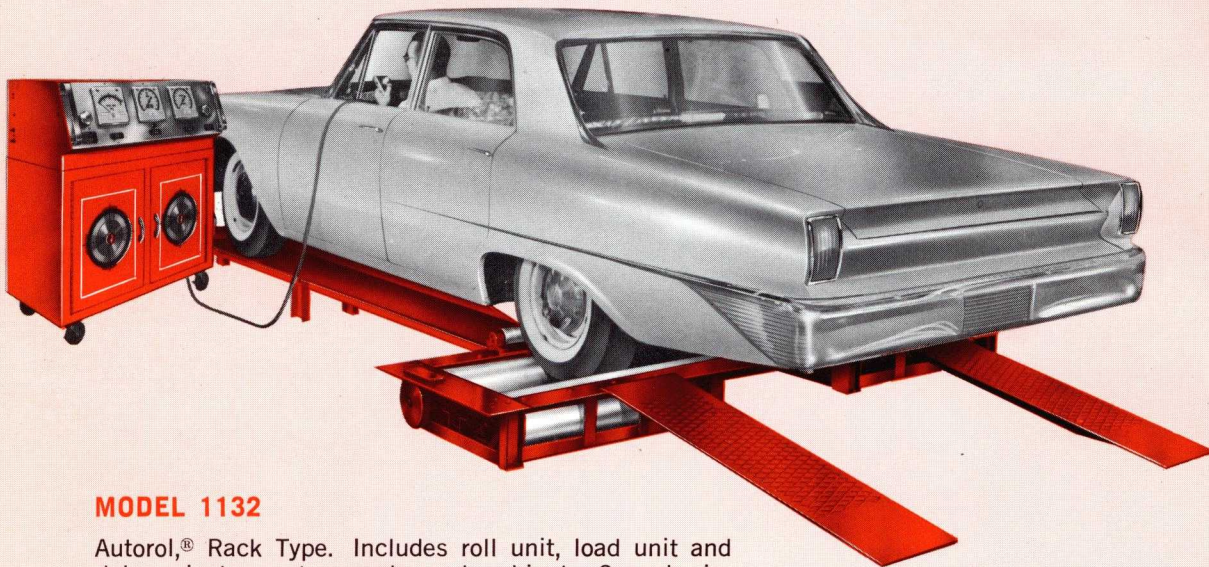
You can use your present "scope" or instrumentation or Bear offers you a choice of instrument consoles. The Bear Autorol/Brakerol will make any instrumentation you have or might choose doubly effective, efficient and useful.

Shipping Weight 5,200 lbs.



DYNAMOMETERS

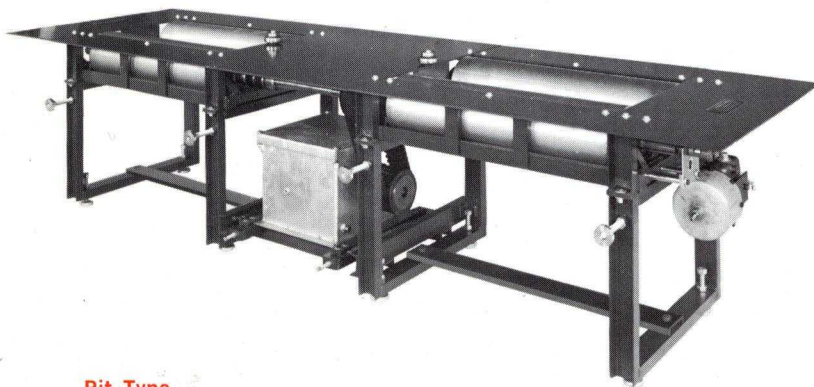
The Bear Proving Ground Performance Autorol® is available in a variety of models with or without tune up equipment. It is extremely simple to use, requires no special electrical hook-up. The Autorol® is inexpensive to install and operate . . . hose water supply and only regular shop air supply is needed. The Bear Autorol® is designed for "one man" operation with push-button remote control easily operated from any position in or around the vehicle.



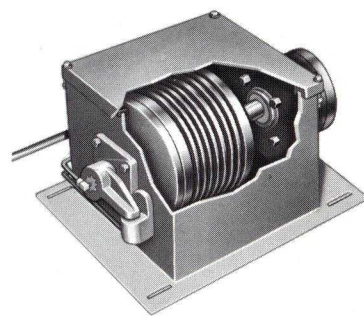
MODEL 1132

Autorol®, Rack Type. Includes roll unit, load unit and deluxe instrument console and cabinet. Console includes: master speedometer, load unit pressure gauge, torque output gauge, remote load unit control.

Shipping Weight 3,250 lbs.



Pit Type Installation



SIMPLE INSTALLATION with long-life pneumatic controls and minimum maintenance. The rugged roll unit is constructed in sections for ease of handling and installation. Frame is heavy duty, welded steel channel with self-aligning pillow block bearings and steel rolls precision machined to a smooth finish and accurate diameter. The load unit has high 1000 pound feet "braking torque" capacity. It is operated remotely by a miniaturized, push button air control system that guarantees years of trouble-free service.

MODEL 1131

Autorol,® Pit Type. Includes roll unit, load unit and deluxe instrument console and cabinet. Console includes: master speedometer, load unit pressure gauge, torque output gauge, remote load unit control.

Shipping Weight 2,890 lbs.

MODEL 1190

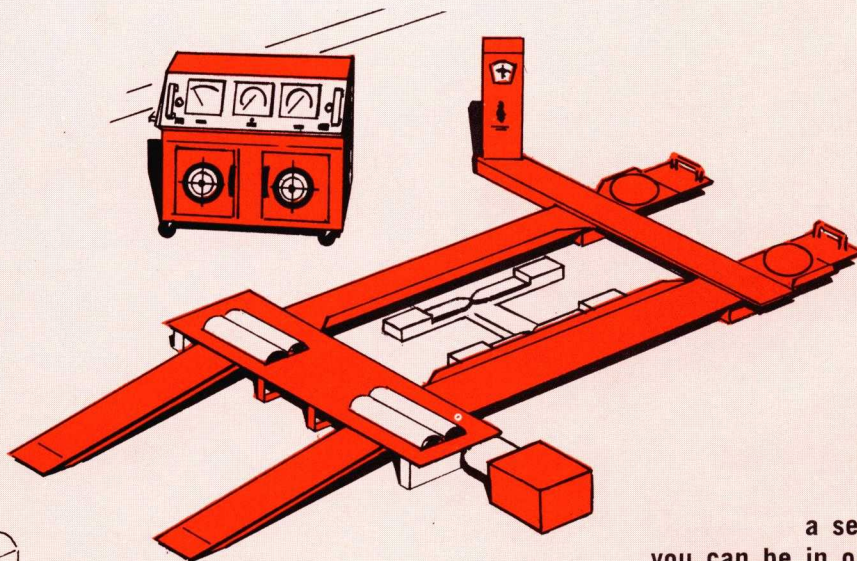
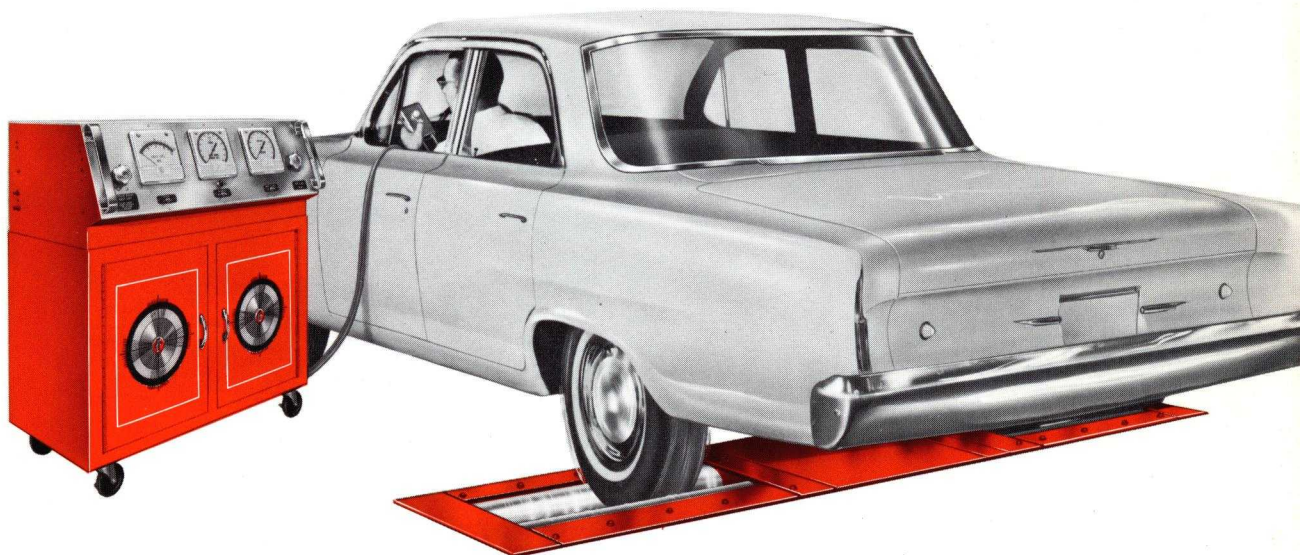
Speedometer-Odometer Testing Service, Pit Type. Includes roll unit, gear reduction unit, recording instrument and instrument stand. Model 1190 S.T. Odometer includes Taxi Meter Tester with instrument panel and hand switch.

Shipping Weight 2,730 lbs.

MODEL 1191

Speedometer-Odometer Testing Service, Back-On Floor Type. Includes roll unit, dual ramp set, gear reduction unit, recording instrument and instrument stand.

Shipping Weight 2,730 lbs.



**If you have
a service station,
you can be in on the action!**

This 1132-210 Model of efficiency for one bay houses a rack type Autorol with built-in scuff gauge and your frame contact hoist installed inside the rack runways. Engine analysis unit plus alinement tools complete this installation.

Shipping Weight 3,550 lbs.

TRUKROL® INSTRUMENTATION

BOOM MOUNTED

Instrument Panel, includes Speed and Power Meters plus all operating controls. Simplified air operated remote control provides fast, precise control of all Trukrol Dynamometer functions.



Supplied
With Model
1170

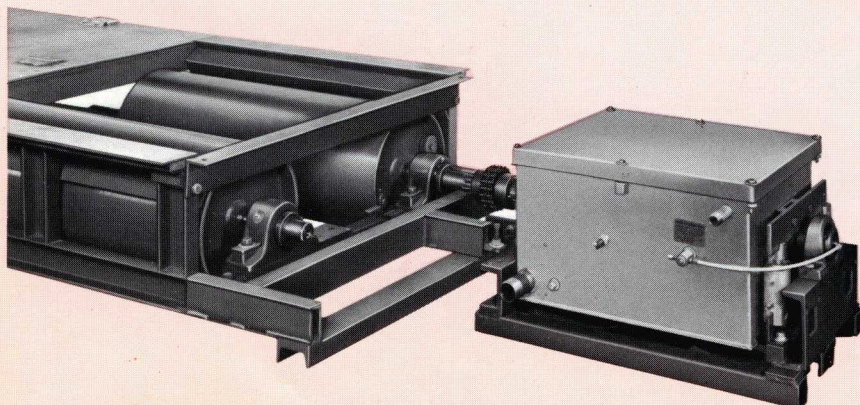


Exclusive features — Big Savings — An important “Breakthrough” in heavy duty truck service equipment!

- **CONTROL CONSOLE** — Control and Instrument Center.
- **REMOTE CONTROL** — With 15-ft. twin hose line, can be carried right into cab by operator.
- **LOAD ABSORPTION UNITS** — One used with each roll unit.
- **BRAKE DRUM** — 12 in. diameter.
- **HYDRAULIC PRESSURE SOURCE** — Wagner Power Cluster operates on 45 lbs. air pressure.
- **COUPLING TO DRIVE ROLLS** — Heavy Duty Industrial.

- **BEARINGS** — Heavy Duty Double Roller with concave roller design, integral self alignment, high radial capacity.
- **ROLL FRAME** — Welded channel steel.
- **ROLLS** — 12½ in. diameter; wall ⅜ in. thick; length, each 34 in. One pair of drive rolls, one pair of idlers.
- **ROLL CENTERS** automatically adjustable, can accommodate the smallest of compacts as well as large trucks . . . A Trukrol exclusive feature.

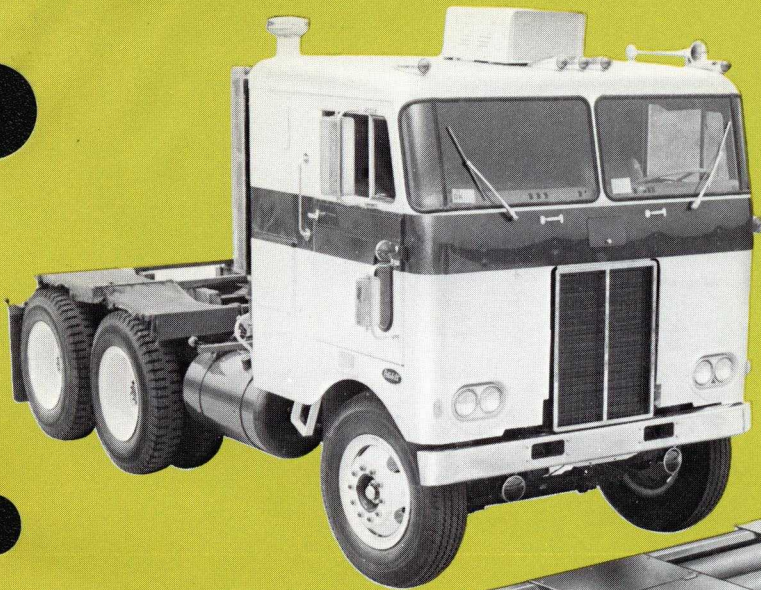
PROVED By Every Kind of “Torture Test.” BEAR TRUKROL has built-in BIGNESS where it counts . . . It's whopping big . . . 12½ in. diameter . . . rolls eliminate tire heating and damage during performance testing. Just what the industry has been wanting, a practical sure-fire way to measure truck performance by measuring the turning effort at the rear wheels.



TRUKROL FEATURES

Heavy Duty construction AND variable roll spacing. Rolls “close up” for small truck and passenger car testing . . . “opens up” for big truck testing . . . large 12½” diameter rolls are fabricated from highest quality, seamless tubing . . . turned to a precise diameter specification.

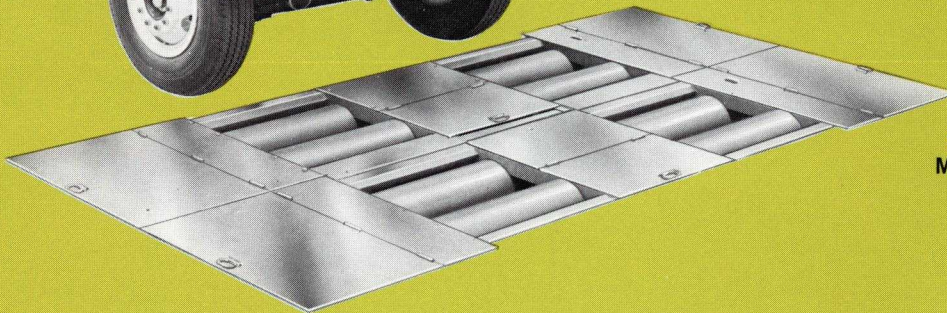
DYNAMOMETERS



For full range testing of Twin Screw tandem units. Dual dynamometer roll units, each equipped with large diameter rolls for elimination of tire damage and heating.

Each roll unit has the famous roll center adjustment, an exclusive feature in Bear Trukrol. Front unit is stationary, rear unit, is adjustable for tandem unit centers of 41" to 67".

Roll adjust for large or small tractors is accomplished by air power. Rear unit spacing is handled by mechanical means with lock at desired centers, scaled in inches, for convenience.



**TWIN SCREW TRUKROL
MODEL 1172 AND 1173**

Model 1170 single roll units provide same action where Twin Screw Tandem service is not desired.



SINGLE DRIVE

Remote control . . . makes Dynamometer control as simple as on and off . . . also works with Load Gauge on instrument panel . . . operator sees amount of braking pressure he is applying . . . ANOTHER BEAR TRUKROL EXCLUSIVE.

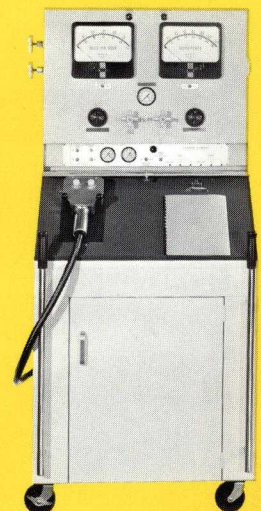
Supplied with
Models 1170 or 1171



TWIN DRIVE

Remote control . . . simple to operate . . . has operating instruction plate. AIR OPERATED . . . load and unload buttons provide smooth control featured only in Bear Trukrol Dynamometers. Works with Load Gauge on instrument panel. Operator always knows HOW MUCH braking pressure he has applied.

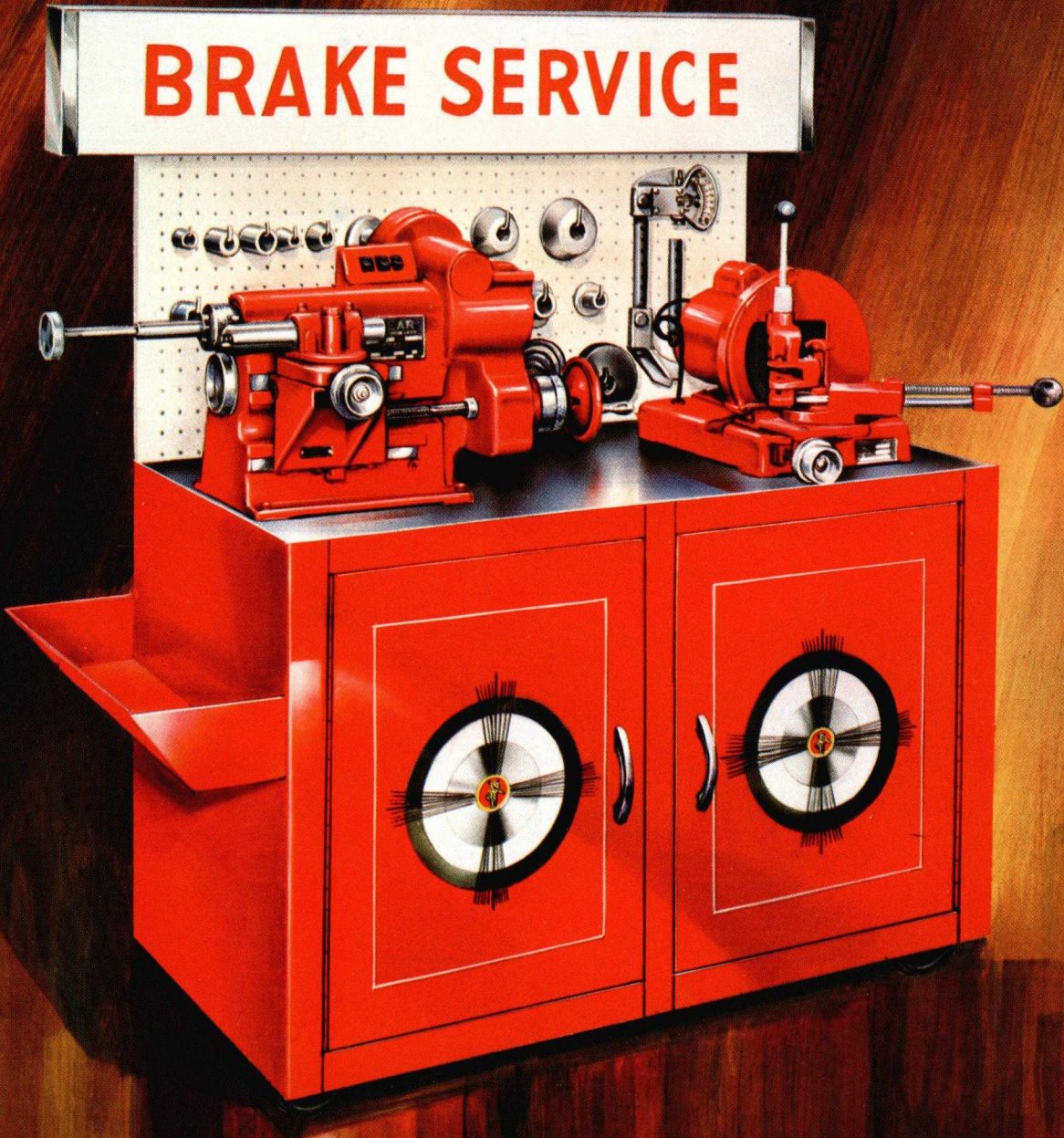
Supplied with
Models 1172 or 1173



TRUKROL INSTRUMENTATION

DeLuxe and Wall Mounted . . . have built-in dynamometer calibration system. Any mechanic can adjust Bear Trukrol dynamometer calibration . . . A BEAR EXCLUSIVE.

BRAKE SERVICES



One of The Profit Twins

TAKES 6" to 24" DRUMS . . . CUTS FULL 7" WIDTH
NO ARBOR CHANGING for any U. S. car
ONE PASS CUTTING for most jobs
8 MICRO-FEED POSITIONS from .025" to .020"
DIRECT READING CROSS FEED DIAL ends errors
UNIVERSAL SHOE CLAMP takes 6" to 14" shoes

No. 1401 PORTABRAKE® SHOP INCLUDES:

| No. | Part Name |
|-------|--------------------------------|
| 1410 | Brake Drum Lathe |
| 1416 | Portable Work Bench |
| 1420 | Brake Shoe Radius Grinder |
| 1432 | Brake Drum Micrometer |
| 1450A | Passenger Car Attachment Group |
| 23115 | Chip Pan |

COMPACT . . . FITS INTO 2' x 3' 6" SPACE

TIMKEN ROLLER BEARINGS for accuracy and long life

The MOST RUGGED SERVICE WITH THE MOST EXTRAS

INTERIOR ILLUMINATED SERVICE SIGN

WORK BENCH

| | |
|-----------------------------|-----|
| Length | 42" |
| Width | 24" |
| Height to Worktop | 30" |
| Overall Height | 59" |

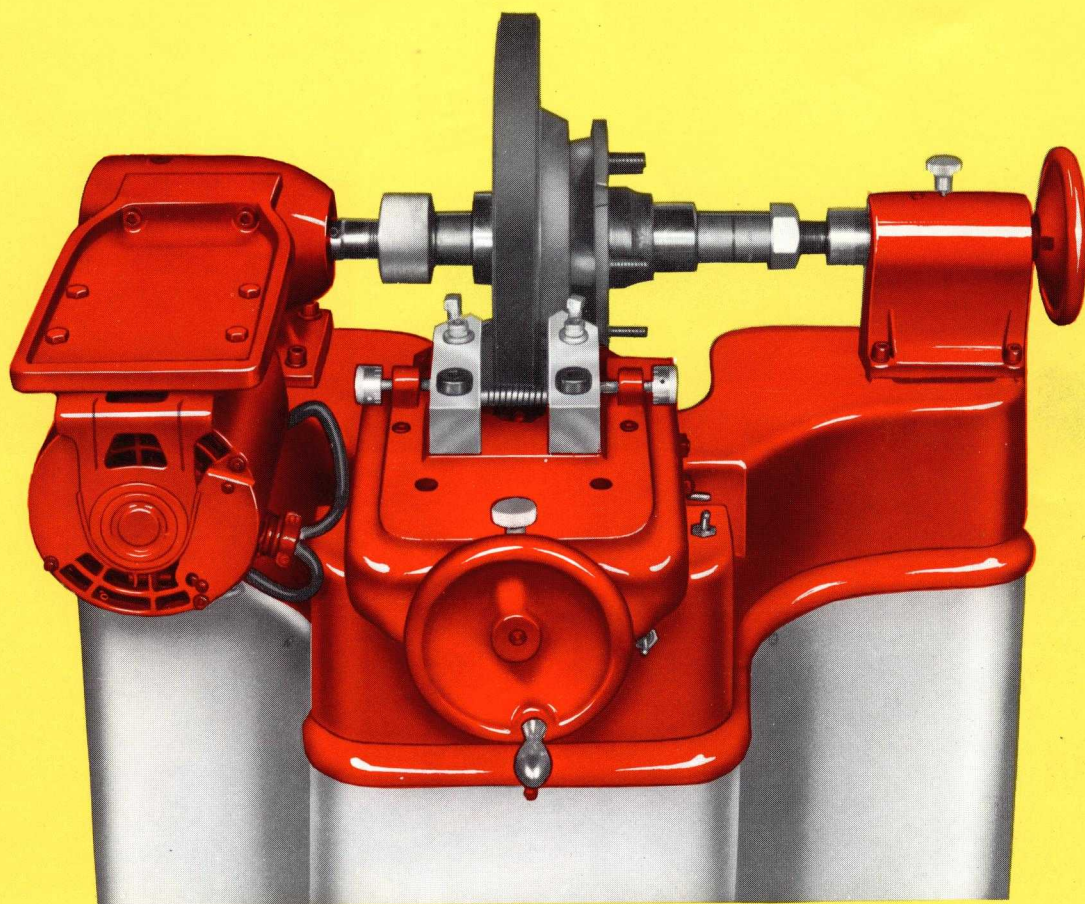
Total Shipping Weight 530 lbs.

no.

1

in

Brake equipment



FAST Service with PRECISION puts you OUT FRONT in this BOOMING Market!

1466B BEAR DISC BRAKE LATHE with Base

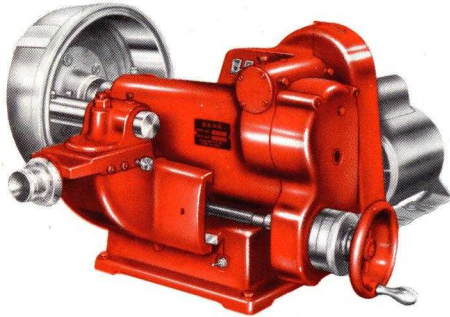
This unit trues hub and rotor assemblies on all passenger cars equipped with Disc Type Brakes. Equipped with necessary adapters for maintaining current specifications and tolerances set by the car manufacturers. Due to rigid specifications, a lathe developed specifically for Discs is very desirable. Both sides of the rotor are trued at the same time, providing a very profit-

able and productive machine. Two motors are used — one for driving the rotor and one for driving the cutter carriage. An automatic cut-off is incorporated for convenience; other work can be done while rotors are being trued. Simple operating procedure puts this unit in the reach of most shops doing or anticipating Disc Brake Service. Specify 1466 without base.

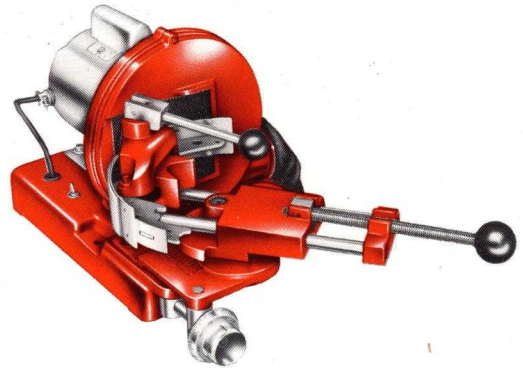
Shipping Weight 275 lbs. with base, 200 lbs. without base

Assures you MAXIMUM Success

The Bear Safe-Way System provides not only the finest in fast, precision Equipment—but also a complete packaged Program that enables you to SELL MORE brake jobs—make MORE MONEY per job—SELL MORE PARTS and Service—SCHEDULE JOBS more profitably, and assure more CUSTOMER GOODWILL!



DRUM LATHE . . . brings you every conceivable advanced feature . . . the heart of the EXTRA PROFIT MAKING POWER of the Bear Safe-Way System.



BRAKE SHOE GRINDER . . . ends "wash-board shoe" problems . . . makes it easy to grind 8 shoes in less than 3 minutes adjusts to handle all shoe sizes from 6" to 14".



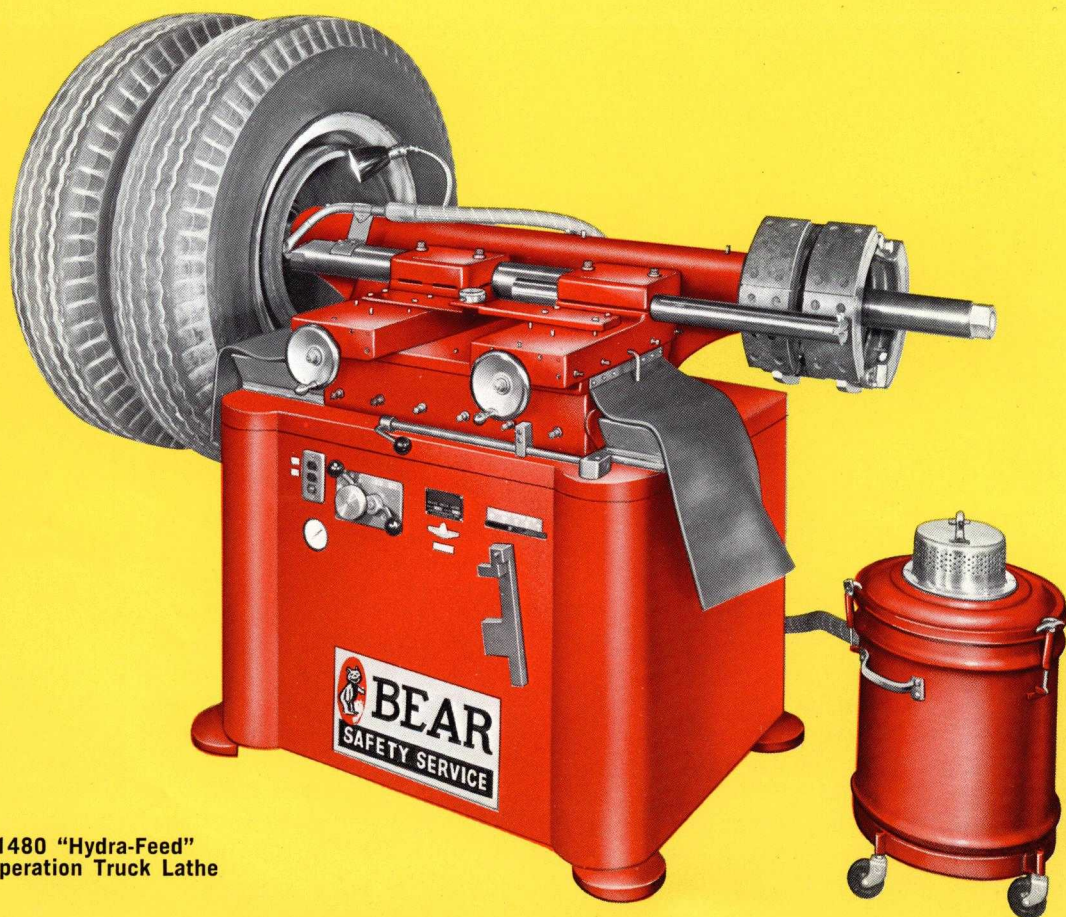
1400 Portabrake Shop
Available as 1402 with
Small 1405 Lathe



No. 1408
Passenger Car Economy Lathe

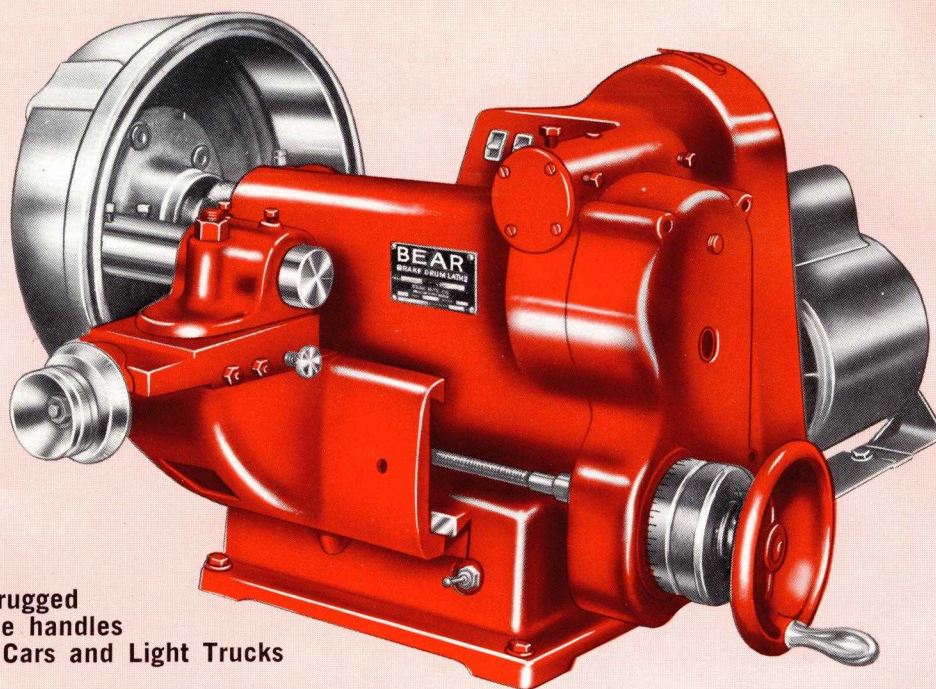


No. 1470 Heavy Duty
Lathe.



No. 1480 "Hydra-Feed"
Dual Operation Truck Lathe

BRAKE SERVICES



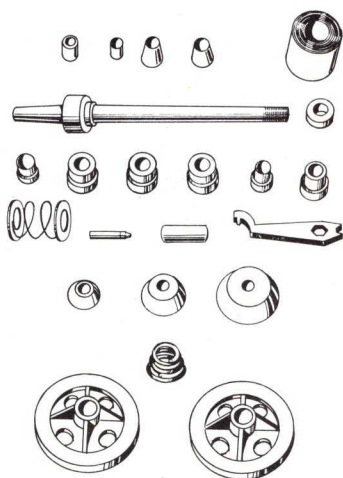
No. 1410
The extra rugged
BEAR Lathe handles
Passenger Cars and Light Trucks

6" to 24" DRUM CAPACITY — WITH ADAPTERS — cuts up to 7" width on drum surface • **HEAVY-DUTY TOOL POST WITH LONG LIFE CUTTER** — allows extra deep cuts, up to 100 drums • **CARRIAGE ADJUSTMENT** — provides adjustable gibs on carriage travel, same as expensive machine lathes • **DIRECT READING CROSS FEED DIAL ELIMINATES ERRORS** — large, easy-to-read dial is calibrated in increments of .001"

Approx. Shipping Weight 285 lbs.

TIMKEN LIFETIME BEARINGS — assures closer tolerances, easily adjustable to take up for wear • **GEAR CASE SEALED IN OIL FOR LONG LIFE** — oil level window assures full, trouble-free lubrication • **POWER PACKED 1/2 H.P. MOTOR** — 110 volt, 60-cycle v-belt drive. (3/4 H.P. motor and odd voltage available at extra charge.) • **A PERFECT FINISH IN ONE CUT WITH A MICRO FEED** — choice of Micro-Feed positions from .0025" to .020" — eliminates need for rough cut in most cases • **AUTOMATIC SHUT-OFF SWITCH** — cuts off when desired cut is completed — no need for operator to attend.

20701 Arbor 11/16" Assembly and 20702 Nut Available Accessory



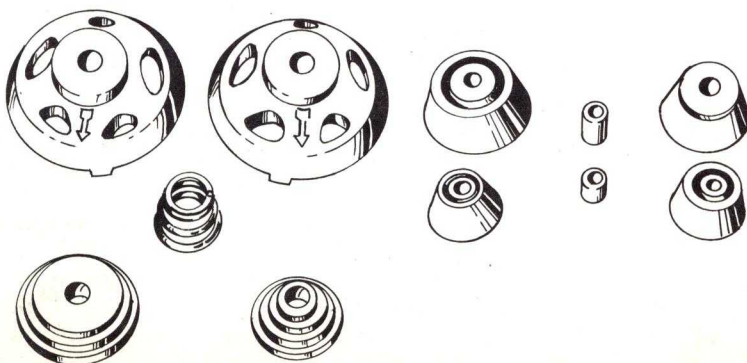
No. 1450A PASSENGER CAR Attachment Group included with 1410 Lathe

| No. | Part Name |
|-------|---|
| 22489 | Arbor Assembly |
| 20924 | Arbor — 1" Dia. |
| 20925 | Arbor Lock Nut |
| 20974 | Retaining Ring |
| 70008 | Arbor Nut |
| 20703 | Spacer 1" Bore x 1" lg. (2) |
| 20737 | Spacer 1" Bore x 2" lg. (2) |
| 24079 | Taper Cone 1 1/8 x 1-15/16 (2) |
| 70000 | Radii Cone 1 3/8 x 1-35/64 x 1" Bore |
| 70001 | Radii Cone 1-25/32 x 1-61/64 x 1" Bore |
| 70002 | Radii Cone 1-21/32 x 2 1/8 x 1" Bore |
| 70003 | Radii Cone 2-27/64 x 2 5/8 x 1" Bore |
| 70004 | Radii Cone 2 1/4 x 2 3/4 x 1" Bore |
| 70005 | Radii Cone 1-23/32 x 2 3/8 x 1" Bore |
| 20717 | Spanner Wrench |
| 20718 | Carbide Tool Bit |
| 20719 | Hone Stick #149 |
| 20725 | Drum Silencer E-1 |
| 20932 | Chip Shield |
| 20720 | Centering Cone — 1 1/2 x 2 1/2 x 1" Bore |
| 20721 | Centering Cone — 2-5/16 x 3 1/4 x 1" Bore |
| 20722 | Centering Cone — 3-1/16 x 4 x 1" Bore |
| 20723 | Face Plate — 1" Bore (2) |
| 20726 | Spring |

No. 1455A LIGHT and MEDIUM TRUCK Attachment Group

| No. | Part Name |
|-------|--|
| 20732 | Taper Cone — 2 7/8 x 3 3/8 x 1" Bore |
| 20733 | Taper Cone — 3 1/4 x 4 1/8 x 1" Bore |
| 20734 | Taper Cone — 3 1/2 x 4 7/8 x 1" Bore |
| 20735 | Taper Cone — 4 1/2 x 6 x 1" Bore |
| 20736 | Spacer — 1 1/2 lg. x 1" Bore |
| 20737 | Spacer — 2 lg. x 1" Bore |
| 20739 | Face Plate (2) |
| 20740 | Step Cone — 2 7/8, 3 7/8, 4 1/8, 4-5/32, 4 3/4 |
| 20741 | Step Cone — 3-9/16, 3 3/4, 3-15/16, 4-19/32, 4-13/16 |
| 20726 | Spring |

Shipping Weight 50 lbs.



BRAKE SERVICES



1418

Bear brake drum lathe on stationary base

Ideal for permanent installation in small place. Turn drums on passenger car and light truck wheels without removing the tire. The modern, eye-appealing metal cabinet is securely anchored to floor.

No. 1418 BRAKE DRUM LATHE INCLUDES:

| No. | PART NAME |
|--------|-----------------------|
| 1410 | Brake Drum Lathe |
| 1418-1 | Stationary Lathe Base |
| 1450A | Attachment Group |

Approx. Shipping Weight
300 lbs.

OPTIONAL EQUIPMENT

| No. | PART NAME |
|-------|---------------------------|
| 1420 | Brake Shoe Radius Grinder |
| 1455A | Truck Attach. Group |
| 1432 | Brake Drum Micrometer |
| 1435 | Pressure Brake Bleeder |
| 1440 | Brake Cylinder Hone |

SPECIFICATIONS

Stationary Lathe Base

| | |
|---------------------------|--------------------------------|
| Height | .25" |
| Width | .20" |
| Depth | .21" |
| Lathe Motor | 1/2 HP, 115-Volt, 60-Cycle AC* |
| Distance Spindle to Floor | .40" |
| Major Bearings | Adjustable Timken |

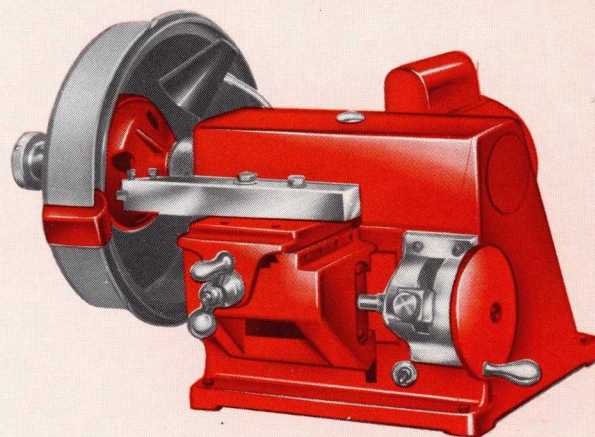
Shipping Weight approx. 300 lbs.

*Odd voltage and cycle motors available at additional cost.



No. 1408 ECONOMY MODEL includes:

| | |
|--------|-----------------------|
| 1405 | Brake Drum Lathe |
| 1418-1 | Stationary Lathe Base |
| 1450A | Attachment Group |



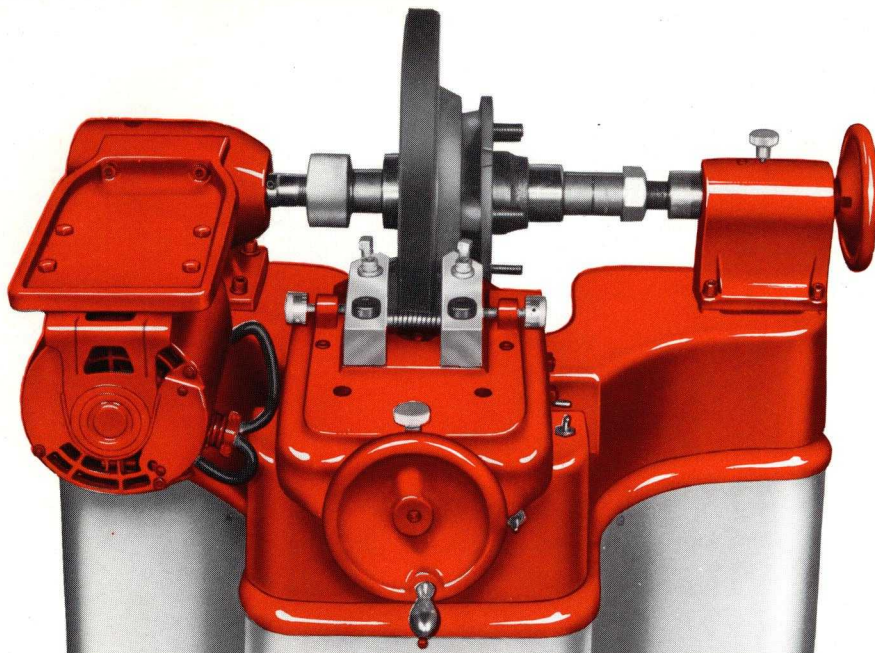
SPECIAL ECONOMY MODEL 1405 FOR PASSENGER CARS

Low cost to handle jobs you can't schedule now or to give high profit brake drum reconditioning service opportunity to smaller dealers in low potential areas.

SPECIFICATIONS

| | |
|-----------------|--|
| Height | .40" |
| Floor Space | .24" x .34" |
| Motor | 1/3 H.P. 110V, 60 Cycle, Single Phase A.C. |
| Feeds | (.0025 — .005 — .0075) |
| Spindle Speed | .82 r.p.m. |
| Capacity | .6" to 14" diameter, 5 1/2" depth |
| Spindle | Tapered Roller Bearing |
| Shipping Weight | .165 lbs. |

BRAKE SERVICES



24733 and 24734
Special Adapters

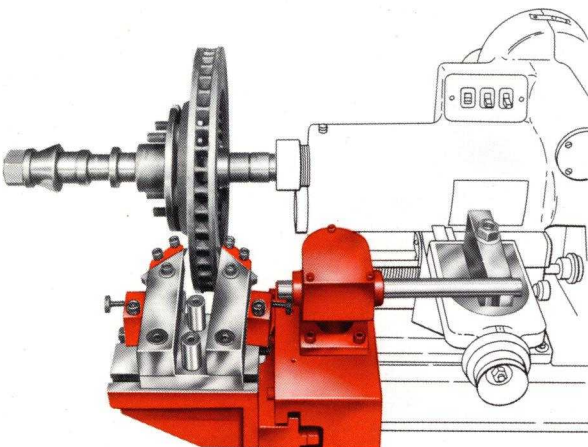


Hand Hone 50469
Abrasive Disc 50466

1466B BEAR DISC BRAKE LATHE WITH BASE

This unit trues hub and rotor assemblies on all passenger cars equipped with Disc Type Brakes. Equipped with necessary adapters for maintaining current specifications and tolerances set by the car manufacturers. Due to rigid specifications, a lathe developed specifically for Discs is very desirable. Both sides of the rotor is trued at the same time providing a very profitable and productive machine. Two motors are used—one for driving the rotor and one for driving the cutter bits. An automatic cut-off is incorporated for convenience; other work can be done while rotors are being trued. Simple operating procedure puts this unit in the reach of most shops doing or anticipating Disc Brake Service. Specify 1466 without base.

Shipping Weight with base 275 lbs., without base 200 lbs.

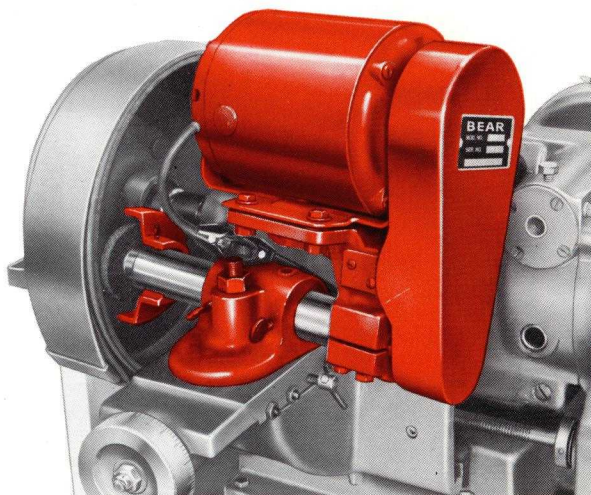


MODEL No. 22492 DISC BRAKE ATTACHMENT — For 1410 Lathe

This power operated attachment turns both sides of the disc at the same time. Equal pressure is applied to both sides simultaneously eliminating any chance of distortion.

Shipping Weight 95 lbs.

| Capacity | Dimensions |
|---------------------------------------|--|
| Maximum Disc Diameter 12½" | Overall Height, Bench Mtd. 10½" |
| Minimum Disc Diameter 5½" | Overall Height, Base Mtd. 42" |
| | Minimum Area Required ... 32" x 24" |
| Operation | Ship. Wt., Bench Model ... 200 lbs. |
| Spindle Speed R.P.M. 70 | Ship. Wt., Base Model 275 lbs. |
| Cross Slide Feed Per Rev.004" | |
| Micro Tool Feed, Per Grad.004" | |
| Electric Motors | Standard Equipment |
| Spindle, 1725 R.P.M. ¼ H.P. | Arbor Assembly |
| Cross Slide Gearhead | Rotor/Hub Assembly |
| 3 R.P.M. 1/125 H.P. | Floating Disc Assembly |
| (Motors are 115 V., 1 Ph., 60 Cy.) | Chatter Band 24851 |
| | Operator and Parts Manual |
| | Foreign Car Chatter Band Accessory 71595 |



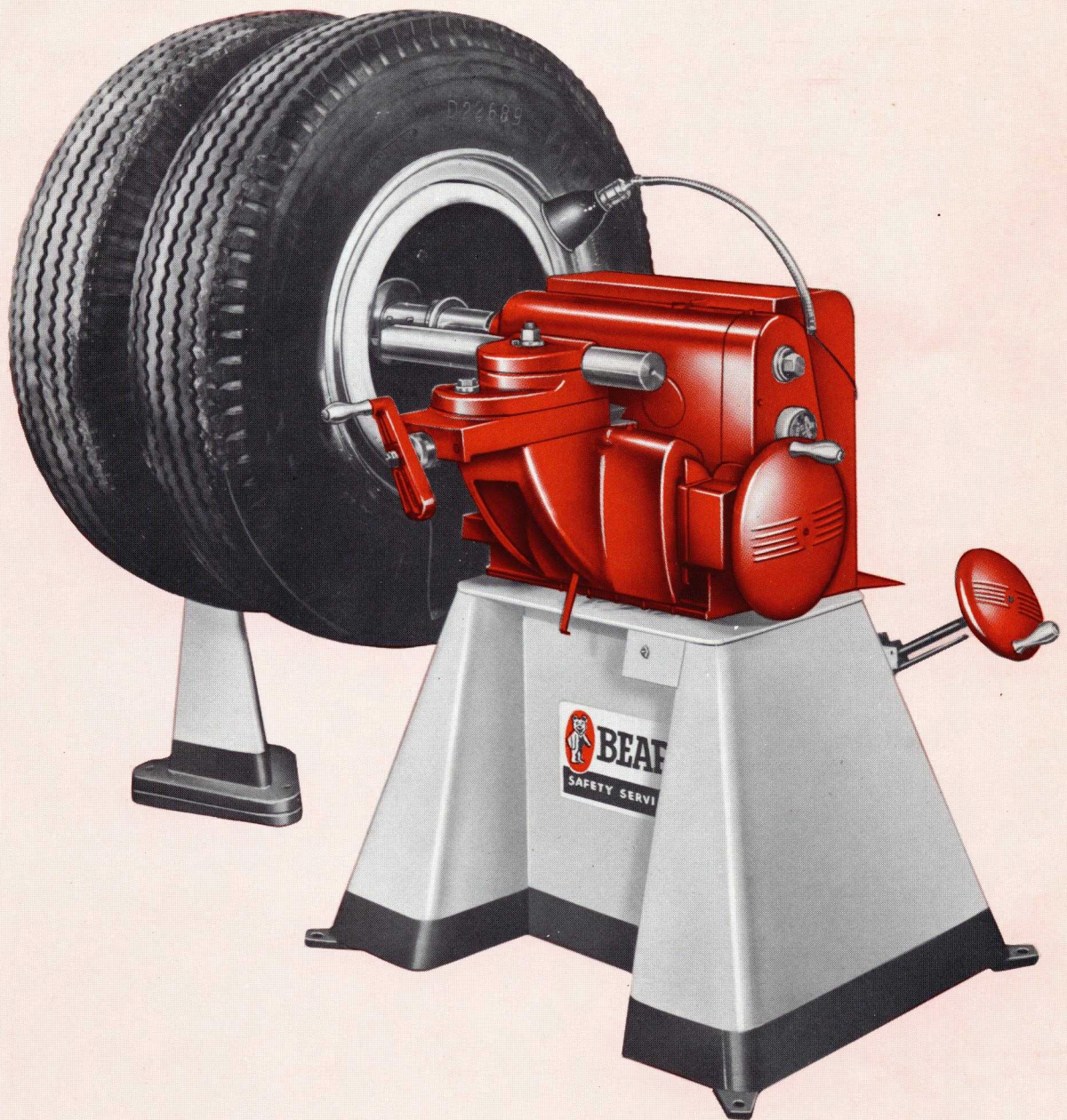
No. 1445 DRUM GRINDER — For 1410 Lathe

PRECISION GRINDING —
provides superior finish
on hard drums.

MOTOR SPECIFICATIONS —
1½ H.P., 115 volt, 60 cycle, AC.
Odd voltages and cycles extra.
Specify voltage and cycle re-
quired.

No. 1445 DRUM GRINDER INCLUDES:

Grinding wheel 27½" dia. 70066
Grinding Wheel, 3¼" dia. 200936
Diamond dresser holder 21571
Diamond dresser point 20938
Shipping Weight approx. 40 lbs.



HEAVY DUTY MODEL No. 1470 HEAVY DUTY BRAKE SERVICE

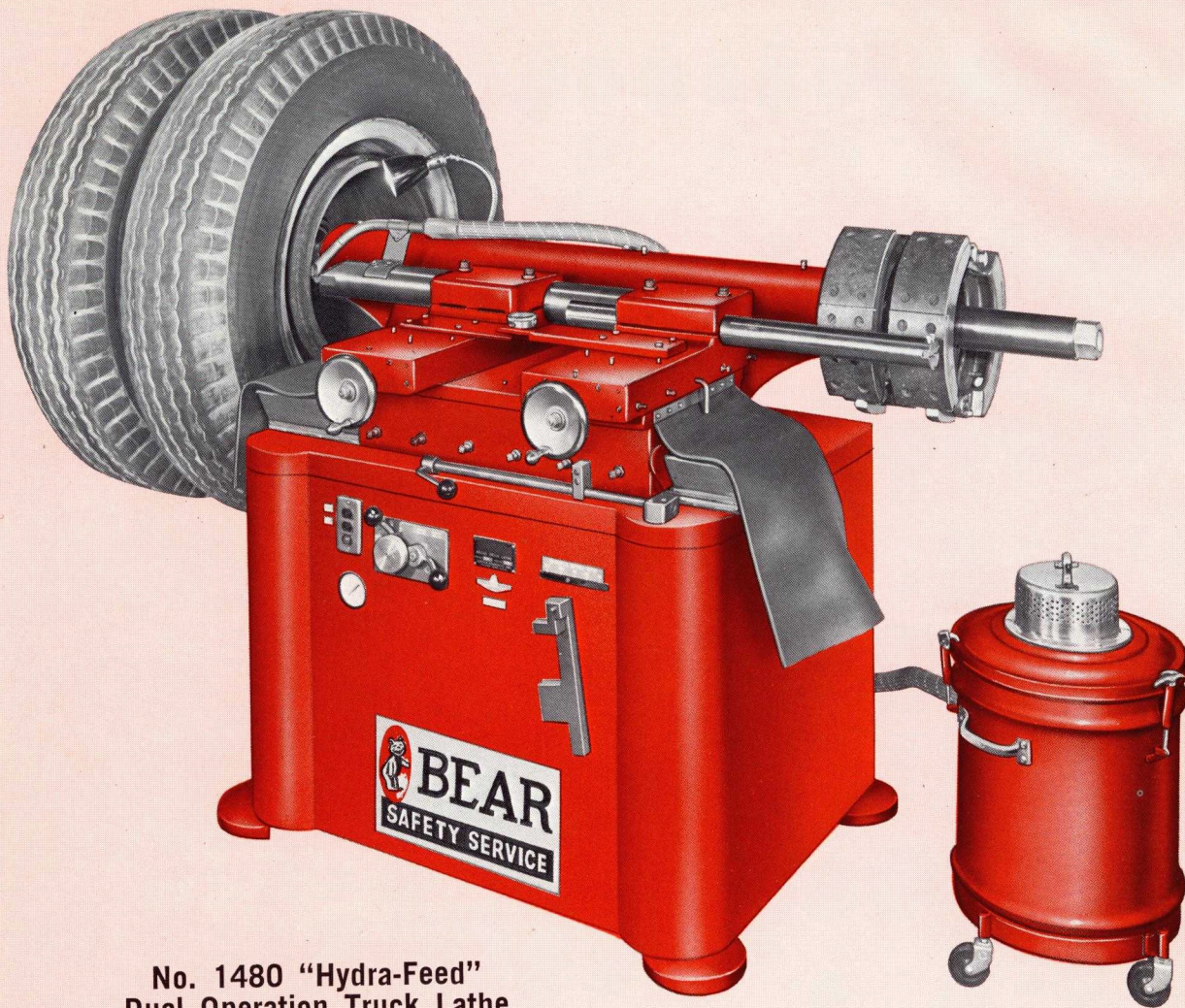
Your HEAVY DUTY MODEL No. 1470 is tops in capacity and rugged construction.

Here is a heavy duty lathe tested for construction and performance for smooth, easy operation. It has all the expected heavy duty features and goes beyond the capacity of comparable heavy duty lathes.

Field training will assure your shop of being the outstanding Heavy Duty Service Shop in your area. Includes heavy duty lathe and base with passenger car and light truck attachments (1471-A).

- Eight feeds — includes .0025" micro-feed.
- Variable speed spindle — 30 r.p.m. to 170 r.p.m.
- 2¼" diameter tool bar with ⅝" square tool bit.
- Tapered adjustable bearing.
- Drum capacity — 13½" depth and up to 30" diameters.
- Dovetail ways — adjustable gibs.
- Shipping weight — 750 lbs.
- Over-all dimensions: 42" H.; 45" D.; 34" L. without arbor.
- 1 H.P. motor 110/220

BRAKE SERVICES



No. 1480 "Hydra-Feed"
Dual Operation Truck Lathe



No. 1481 "Hydra-Feed" Single Operation Truck Lathe

SPECIFICATIONS

CAPACITY

| | |
|-----------------------------|-----------|
| Maximum drum diameter | 28" |
| Minimum diameter — standard | 14" |
| — optional | 8" |
| Maximum depth of cut | 16" |
| Maximum weight, dual wheels | 1600 lbs. |

OPERATING DATA

| | |
|------------------------------|------------------|
| Spindle speeds, variable | 40 to 120 R.P.M. |
| Feed, variable hydraulic | 0 to 16 I.P.M. |
| Manual cross feed, graduated | .001" |

ELECTRIC MOTORS

| | |
|---|----------|
| Spindle drive motor | 3 H.P. |
| Hydraulic pump motor | 1/3 H.P. |
| (Motors are 220-volt, 3 phase, 60 cycle)* | |

DIMENSIONS

| | |
|------------------------------|-----------|
| Overall length | 55" |
| Overall depth, front to back | 36" |
| Overall height | 42" |
| Distance, spindle to floor | 38" |
| Shipping weight — Model 1480 | 2700 lbs. |
| — Model 1481 | 2280 lbs. |

STANDARD EQUIPMENT

| MODEL 1480 | | MODEL 1481 |
|------------|--|------------|
| 2 — | Arbor assembly | — 1 |
| 2 — | Draw rod assembly | — 1 |
| 2 — | Tool bar | — 1 |
| 3 — | Tool bits | — 2 |
| 1 — | Cross slide gage | — 1 |
| 1 — | Tool bit gage | — 1 |
| 1 — | Silencer band | — 1 |
| 1 — | Hone | — 1 |
| 1 — | Set, wrenches | — 1 |
| 1 — | Lubricant | — 1 |
| 1 — | Operating manual — parts list | — 1 |
| 1 — | 70178 Cone and spacer group for heavy duty | — 1 |

OPTIONAL EQUIPMENT

Vacuum attachment
 Passenger car tooling, 8" drum
 Floating drum attachments
 Single, double brake shoe fixtures
 *Odd voltage and cycle motors available at additional cost.

BRAKE SERVICES



No. 670 MOBILE DUAL WHEEL DOLLY FOR FASTER, SAFER, EASIER HANDLING OF HEAVY WHEEL ASSEMBLIES

Now, one man can remove, transport and replace heavy truck front and dual wheels and tire assemblies. Handles any size to 1500 lbs. Full 24" lift. Rear caster adjustment screw permits tilting unit 1 $\frac{3}{4}$ ".

Shipping Weight 320 lbs.



1490-1 Bearing
Removal Adapters

BEAR No. 1490 AXLE BEARINGS AND DRUM PRESS puts the advantages of smooth, convenient hydraulic pressure within the reach of the smallest shop. It has dozens of uses such as assembly or disassembly of friction held connections, straightening bent bars, etc. This includes such everyday jobs as removing and installing gears on shafts, pressed bearings on axles and removing and replacing Brake Drums on hubs.

This unit is both rugged in appearance and simple to use. The four inch steel channel assures long trouble-free service and will withstand much normal abuse to which a press is subjected. It has the Bear exclusive ram selector that allows the ram assembly to be moved to the desired position for various uses.

Two V-Blocks No. 24216 are furnished as standard equipment.

Two Jack Head Adapters are furnished as standard equipment for adaptation of Walker & Hein Werner Jacks. A Jack Head Adapter is not used with a Bear W 125 12-ton Hydraulic Jack.

SPECIFICATIONS

Approximate Shipping Weight
With W 125 Jack (12-ton)200#
Without Jack175#
The Bear Model 1490 can be purchased with
W 125 Hydraulic Jack as Model 1490 J.

Overall Height75"
Width24 $\frac{1}{8}$ "
Ram Travel4 $\frac{1}{2}$ "
Maximum Distance Ram to Bolster39"
Capacity12 ton

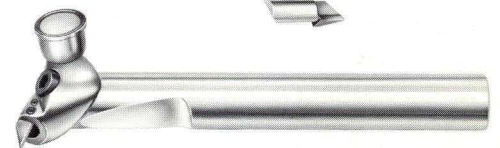
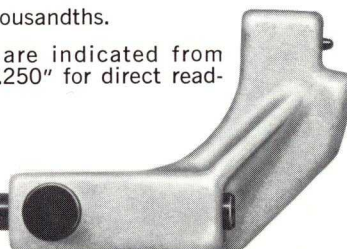


MODEL No. 1432 BRAKE DRUM MICROMETER

PRECISION BRAKE MICROMETER 1432 —
to accurately measure brake drums for
exact over-or-under-size and to correctly fit
new brake linings.

Oversize shown in thousandths.

Precision readings are indicated from
minus .015" to plus .250" for direct read-
ings.



No. 23590 BEAR BRAKE DRUM ROLLER TOOL and No. 23591 BEAR BRAKE TOOL BIT FOR ROLLER.

The Bear Brake Drum Roller Tool trues
and rolls the braking surface, resulting in
a smoother finish. This finish eliminates
loose cast particles that adhere to linings
and cause erratic brake action. This fin-
ished surface also makes fitting shoes
easier and extends normal lining life. Fits
most drum lathes.



1432-1 Extension Rod 18"

BRAKE SERVICES

MODEL 1420 BEAR DISC TYPE BRAKE SHOE PRECISION FIT GRINDER

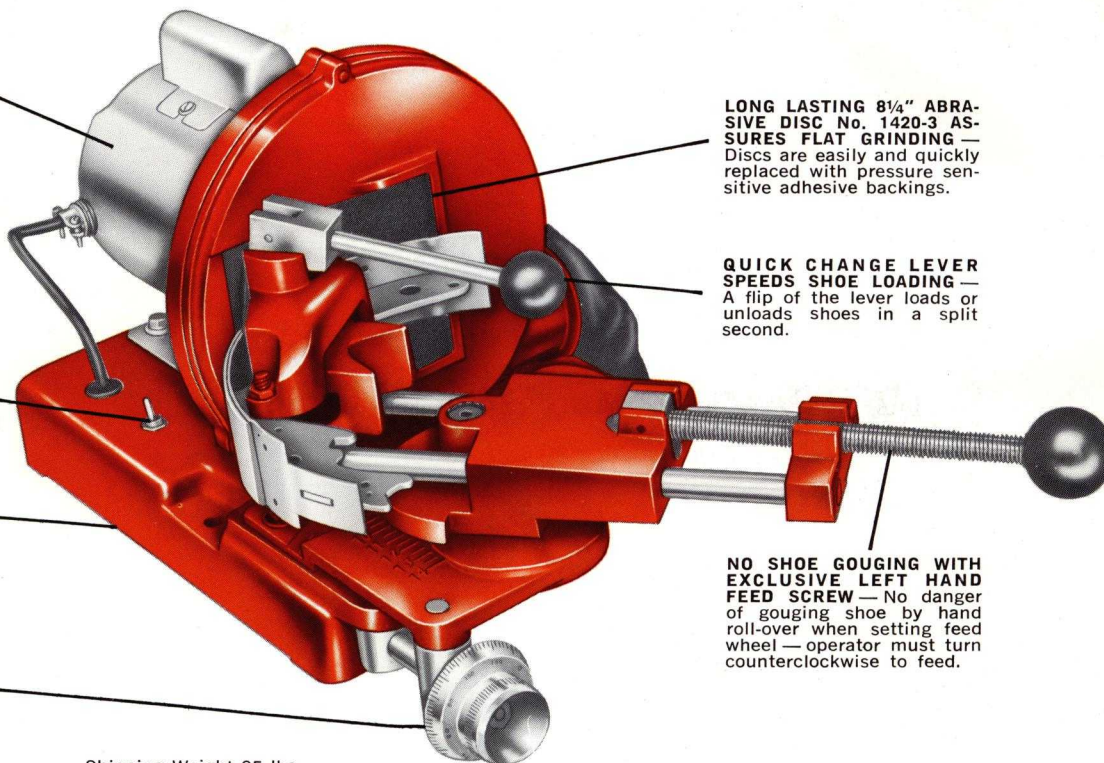
HIGH SPEED GRINDING WITH 3450 RPM 1/3 H.P. MOTOR — Makes it easy to grind 8 shoes in less than 3 minutes.

UNIVERSAL SHOE CLAMP TAKES ALL SHOES FROM 6" TO 14" — Save hours of time when a large number of shoes of different sizes are ready for grinding.

CONVENIENTLY LOCATED MOTOR SWITCH

HEAVY CAST IRON BASE ELIMINATES VIBRATION

SHOE ADJUSTMENT ENDS CALCULATION, SIMPLY SET MICROMETER DIAL TO DRUM DIAMETER — Large easy-to-read numbers are calibrated in drum diameters giving automatic correct shoe contours.

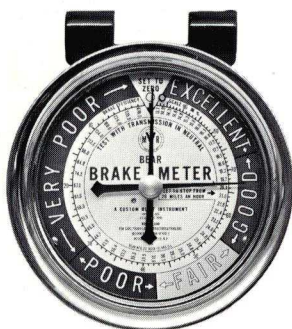


LONG LASTING 8 1/4" ABRASIVE DISC No. 1420-3 ASSURES FLAT GRINDING — Discs are easily and quickly replaced with pressure sensitive adhesive backings.

QUICK CHANGE LEVER SPEEDS SHOE LOADING — A flip of the lever loads or unloads shoes in a split second.

NO SHOE GOUGING WITH EXCLUSIVE LEFT HAND FEED SCREW — No danger of gouging shoe by hand roll-over when setting feed wheel — operator must turn counterclockwise to feed.

Shipping Weight 85 lbs.



No. 495 BRAKE METER

Designed to provide inspection stations, service stations and others with a fast reliable means of checking the efficiency of automobile and truck braking systems. The simplicity of installation, requiring but seconds, is important where a great number of vehicles are checked in a short period of time. The meter's dial has 5 distinct colors for easy identification and all numerals are large and clearly legible.



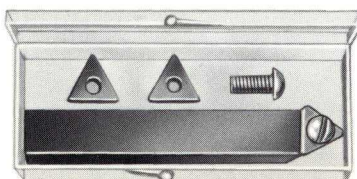
REPLACEABLE CARBIDE TIP FOR MACHINING BRAKE DRUMS

A revolutionary concept in lathe cutting tools. Standard cutter with a precision-ground diamond-hard replaceable carbide tip with 6 cutting surfaces. Change tips without removing cutter in less than 30 seconds. Machines cast iron, steel, or aluminum drums.

No. 23211 LEFT HAND TOOL BIT

No. 20718 R.H. LATHE CUTTING TOOL

A carbide tipped cutter ground to exact clearances for drum machining and differs from the No. 1460 replaceable tip cutter in that the tip is brazed to the cutter shank.



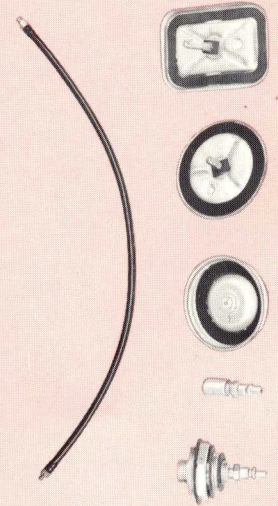
No. 1460 CUTTER BIT KIT

| No. | Part Name |
|--------|------------------------------|
| 1460-1 | Bit Holder |
| 1460-2 | Carbide Replaceable Tips (3) |
| 1460-3 | Tip Retaining Screw |

BEAR HYDRAULIC BRAKE BLEEDER AND FILL TANK No. 1435

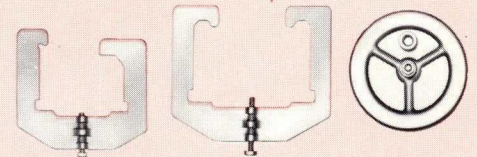
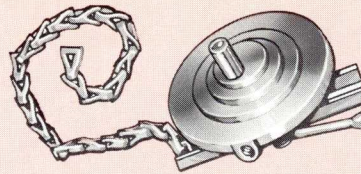
- Provides quick, positive method of servicing and filling all hydraulic brake systems on cars and trucks.
- Heavy gauge, welded steel construction, pressure tested.
- Large, easy-to-read pressure gauge gives accurate readings at all times.
- Easy to move on 3 swivel easy-roll casters.
- Handy, built-in tool box saves time.
- Automatic safety release valve.
- Makes bleeding, flushing and filling a one-man job.
- Four-in-one adapter fits most master cylinders — special adapters included for Chrysler 1955, Ford 1960 and GMC and Chevrolet Trucks 1960.
- Complete with 9 ft. of heavy-duty hose and "Quick Coupler."

Approx. Shipping Weight 18 lbs.
Fluid Capacity 2½ gal.



ADAPTERS INCLUDED

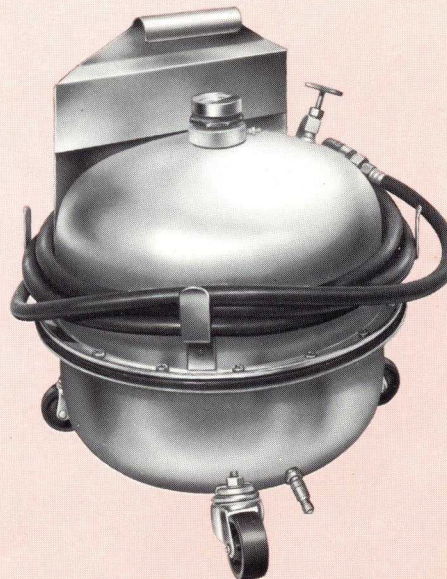
| No. | PART NAME |
|---------|--------------------------|
| 1435-1 | 4 in 1 |
| 1435-2 | Chrysler adapter |
| 1435-3 | Ford 1960 adapter |
| 1435-4 | GMC adapter |
| 1435-5 | 9 foot hose |
| 1435-6 | Bleeder hose |
| 1435-7 | Quick coupler |
| 1435-8 | Quick coupler adapter |
| 1435-9 | GM clamp |
| 1435-10 | T-Bird adapter and clamp |
| 1436-17 | Universal Adapter |



No. 1436A DIAPHRAGM TYPE BLEEDER

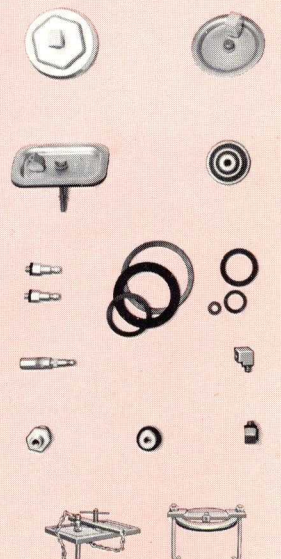
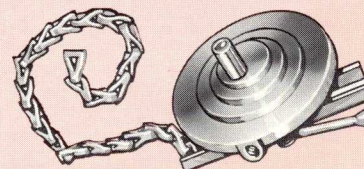
- Provides quick, positive method of servicing and filling all hydraulic brake systems on cars and trucks.
- Heavy gauge, welded steel construction, pressure tested.
- Large, easy-to-read pressure gauge gives accurate readings at all times.
- Easy to move on 3 swivel easy-roll casters.
- Handy, built-in tool box saves time.
- Automatic safety release valve.
- Makes bleeding, flushing and filling a one-man job.
- Four-in-one adapter fits most master cylinders — special adapters included for Chrysler 1955, Ford 1960 and Chevrolet Trucks 1960.
- Complete with 12 ft. of heavy-duty hose and "Quick Coupler."

Approx. Shipping Weight 18 lbs.
Fluid Capacity 2½ gal.



ADAPTERS INCLUDED

| No. | PART NAME | No. | PART NAME |
|--------|---------------------------|---------|-----------------------------|
| 1436-1 | 3-Thread Adapter | 1436-10 | Bleeder Hose (snap-on type) |
| 1436-2 | Chrysler Adapter | 1436-11 | 8" Whip End |
| 1436-3 | Ford Adapter | 1436-12 | Gasket Set |
| 1436-4 | G.M.C. Adapter | 1436-13 | 45° Elbow |
| 1436-5 | Filler Adapter | 1436-14 | 90° Elbow |
| 1436-6 | Combination Adapter | 1436-15 | Air Chuck |
| 1436-7 | Olds 53-56 Adapter | 1436-16 | Male Coupler |
| 1436-8 | Quick Coupler | 1436-23 | T-Bird |
| 1436-9 | Bleeder Hose (screw type) | 1436-25 | Dual Master Cyl. |
| | | 1436-17 | Universal Adapter |

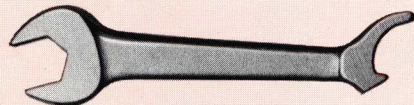
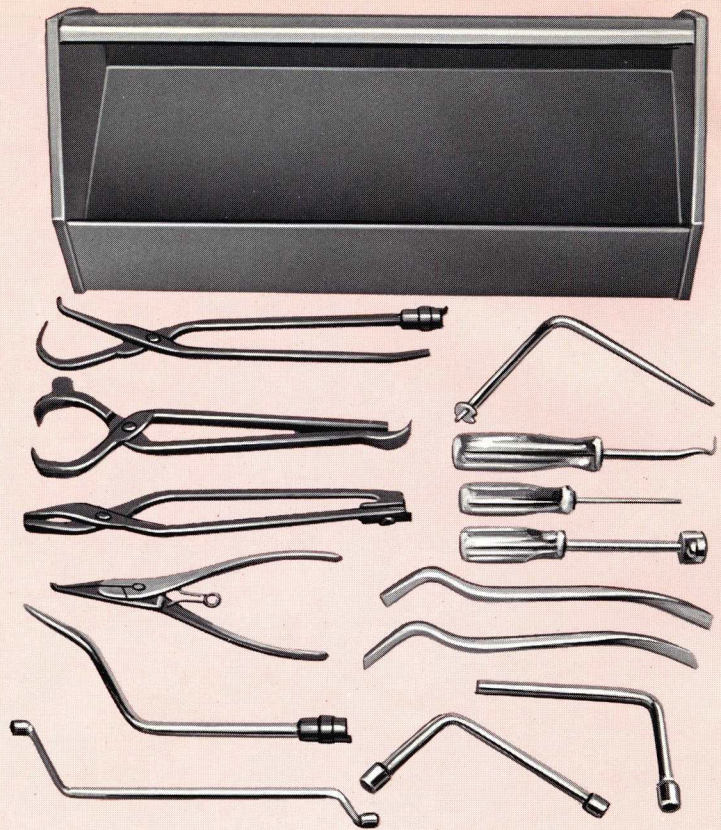


BRAKE SERVICES

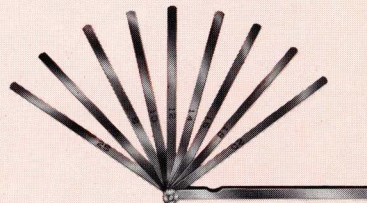
No. 72980 BRAKE HAND TOOL KIT CONSISTING OF THE FOLLOWING TOOLS:

| No. | Part Name |
|-------|-----------------------------|
| 72981 | Tote Tray |
| 72982 | Cotter Pin Puller |
| 72983 | Grease Cup and Hub Cap Tool |
| 72984 | Lock Ring Pliers |
| 72985 | Spring Pliers |
| 72986 | Spring Pliers |
| 72987 | Adjusting Tool |
| 72988 | Adjusting Tool |
| 72989 | Spring Tool |
| 72990 | Spring Tool |
| 72991 | Bleeder Tool |
| 72992 | Bleeder Wrench |
| 72993 | Spring Tool |
| 72994 | Spring Tool |
| 72995 | Chrysler Brake Wrench |

Shipping Weight 9½ lbs.



21496
Chrysler Emergency Adjuster

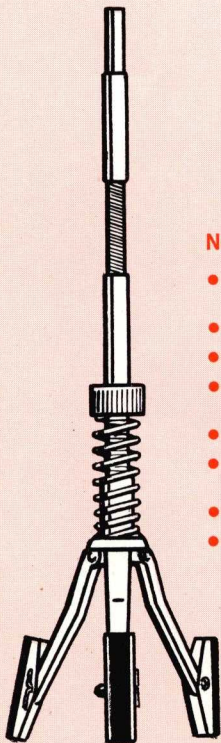


21921
Feeler Gauge Set ¼"-.005

No. 1440 BRAKE CYLINDER HONE

- All purpose hone especially designed for brake cylinder use.
- Flexible joint drive and adjustable tension.
- Assures mirror finish.
- Wide capacity range from ¾" to 2¼" diameter cylinders.
- Self-aligning, self-centering.
- Built to resurface step cylinders or bottom in blind holes.
- Stones quickly and easily replaced.
- Stones permanently cemented to steel backing shoes.

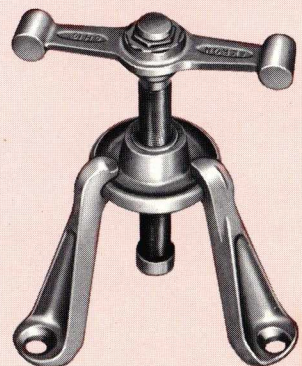
Approx. Shipping Weight ½ lb.



20765
Brake Cylinder Hone



20748
Set of three
Replacement Stones

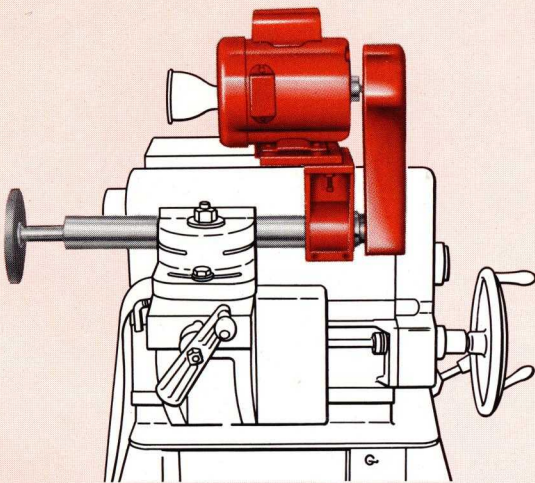


21498
Wheel Puller



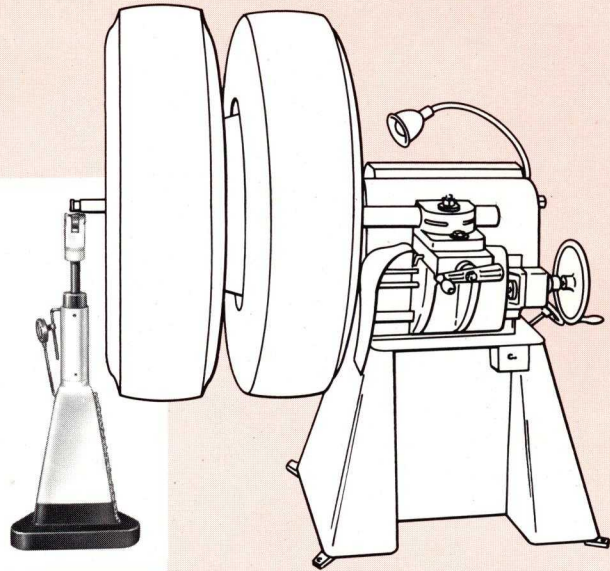
21499
Wheel Cylinder Clamps (Set of 4)

BRAKE SERVICES



No. 1475 DRUM GRINDER
(fits a 1470 Heavy Duty Lathe)

MODEL No. 1475 FOR HEAVY DUTY LATHE — Precision Grinding . . . provides superior finish on hard drums. 3½" diameter grinding wheel, diamond dresser holder and diamond dresser point. 1 H.P., 115 V, 60 Cycle AC Motor. Odd voltages and cycles extra. Specify voltage and cycle required. 1475-1 replacement stone.



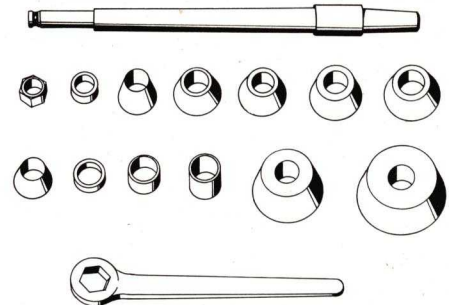
No. 1476 OUTBOARD SUPPORT

Complete with Dial Indicator — Use with 1470 Lathe.

Shipping Weight approx. 100 lbs.

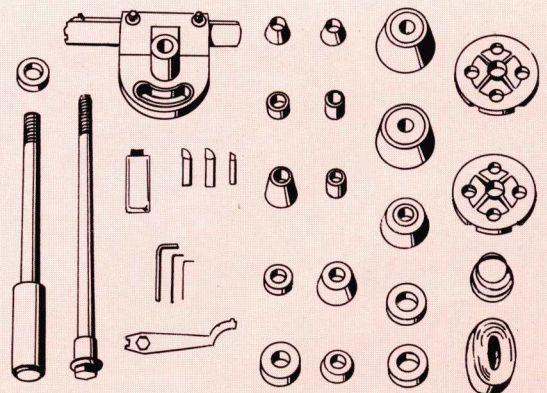
No. 1472 HEAVY DUTY TRUCK ATTACHMENT

| No. | Part Name | No. | Part Name |
|-------|-----------------------|-------|-----------------------|
| 24038 | Arbor — 2" Dia. | 24046 | Cone 3⅜ x 4-15/32 |
| 24039 | Washer | 24047 | Cone 3½ x 4-25/32 |
| 24040 | Nut 2⅝ Hex. | 24048 | Cone 4⅝ x 5-15/16 |
| 24041 | Spacer 1" Lg. | 24049 | Cone 5⅞ x 7-3/16 |
| 24042 | Spacer 2" Lg. | 24050 | Cone 2-15/16 x 4½ |
| 24043 | Spacer 3" Lg. | 24051 | Cone 2-15/16 x 4-1/16 |
| 24044 | Cone 2-5/64 x 3-5/32 | 71270 | Box end Wrench |
| 24045 | Cone 2-5/32 x 3-13/32 | | |



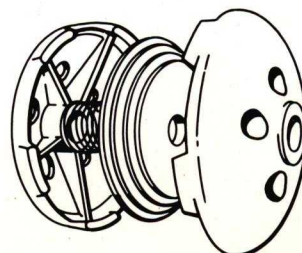
No. 1471A ATTACHMENT GROUP

| No. | Part Name | No. | Part Name |
|-----------------------|----------------------------|---------------------------------|-----------------------|
| 24052 | Draw Rod Assembly | 24079 | Taper Cone — |
| 4986 | Allen Wrench ⅝ ACF | 1-1/32" x 1-15/16 x 1" Bore (2) | |
| 4987 | Allen Wrench 5/32 ACF | 70000 | Radii Cone — |
| 25593 | Allen Wrench 5/16 ACF | 1⅝ x 1-35/64 x 1" Bore | |
| 20717 | Spanner Wrench | 70001 | Radii Cone — |
| 20719 | Hone Stick #149 | 1-25/32 x 1-61/64 x 1" Bore | |
| 20725 | Drum Silencer #E-1 | 70002 | Radii Cone — |
| 20723 | Face Plate — 1" Bore (2) | 1-21/32 x 2⅞ x 1" Bore | |
| 20726 | Spring | 70003 | Radii Cone — |
| 20736 | Spacer — 1" Bore x 1½" Lg. | 2-27/64 x 2⅝ x 1" Bore | |
| 20737 | Spacer — 1" Bore x 2" Lg. | 70004 | Radii Cone — |
| 24059 | Arbor — 1" Dia. | 2¼ x 2¾ x 1" Bore | |
| 70008 | Arbor Nut | 70005 | Radii Cone — |
| 24060 | Taper Cone — | 1-23/32 x 2⅝ x 1" Bore | |
| 24061 | Taper Cone — | 24034 | Tool Bit |
| 3¼ x 4⅝ x 1" Bore (2) | | 24035 | Tool Bit |
| 24077 | Taper Cone — | 71272 | Pass. Car Tool Block |
| 1⅝ x 2¼ x 1" Bore | | 71273 | Boring Bar, Pass. Car |
| 24078 | Taper Cone — | 20718 | Tool Bit |
| 2-1/16 x 2¾ x 1" Bore | | | |

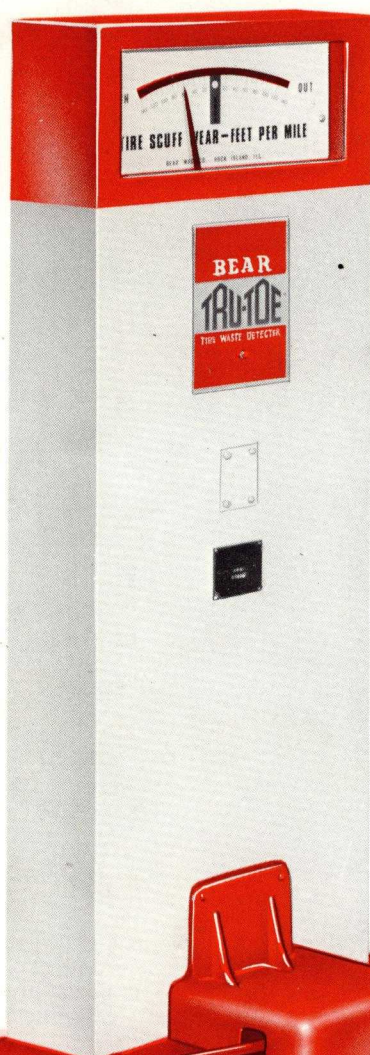


No. 1473 HEAVY DUTY FLOATING DRUM ATTACHMENT

| No. | Part Name |
|-------|----------------|
| 24080 | Face Plate (2) |
| 24081 | Step Cone |
| 20922 | Spring |



SAFETY INSPECTION EQUIPMENT



240 DRIVE-OVER SCUFF TESTER

Tests scuff conditions of both front and rear wheels as car drives over sensing blades and shows reading in "side drag in feet per mile" on large dial. Completely self-contained — requires no installation or electrical hook-ups. May be installed with tower on left hand side. Tower is heavy gauge steel with baked on synthetic enamel — platform is finished in red enamel. Gauge capacity for side drag is 110' in and 110' out. Capacity per axle is 32,000 lbs.

Shipping Weight 350 lbs.

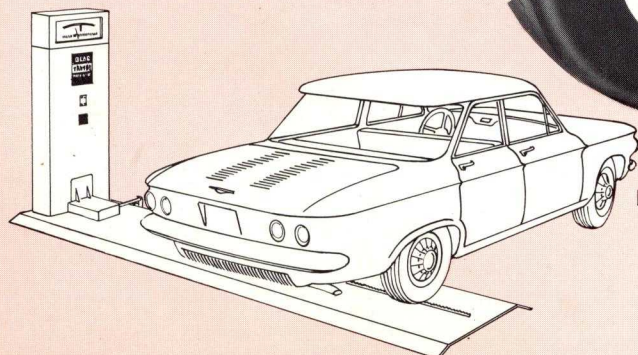
230 HEAVY DUTY DRIVE-OVER SCUFF TESTER

141" platform for wide tread trucks. Fed. Stock No. 4910-399-6068.

Shipping Weight 425 lbs.



REAR WHEEL TOE TEST, Too!



Horizontal Position

Vertical Position

Model 55 Ball Joint Checker approved by car manufacturers and for P.M.V.I.

SAFETY INSPECTION EQUIPMENT

PORTABLE No. 560 AND TRACK TYPE HEADLIGHT TESTER No. 561

Specially designed screen gives SAE and all state minimum requirements! You can see the pattern — no guess work. Approved by vehicle inspection authorities in every state where approval is necessary.

Faster readings due to pinpoint beam pattern which shows exact "Hot-Spot" of the lamp.

No maintenance cost . . . fewer accessories to wear out and replace.

Quickly indicates lamp efficiency . . . maximum reading shows light output in thousands of footcandles!

Greater visibility in daylight than any other tester . . . needs no darkened area . . . checks aim, elevation and focus in one quick operation.



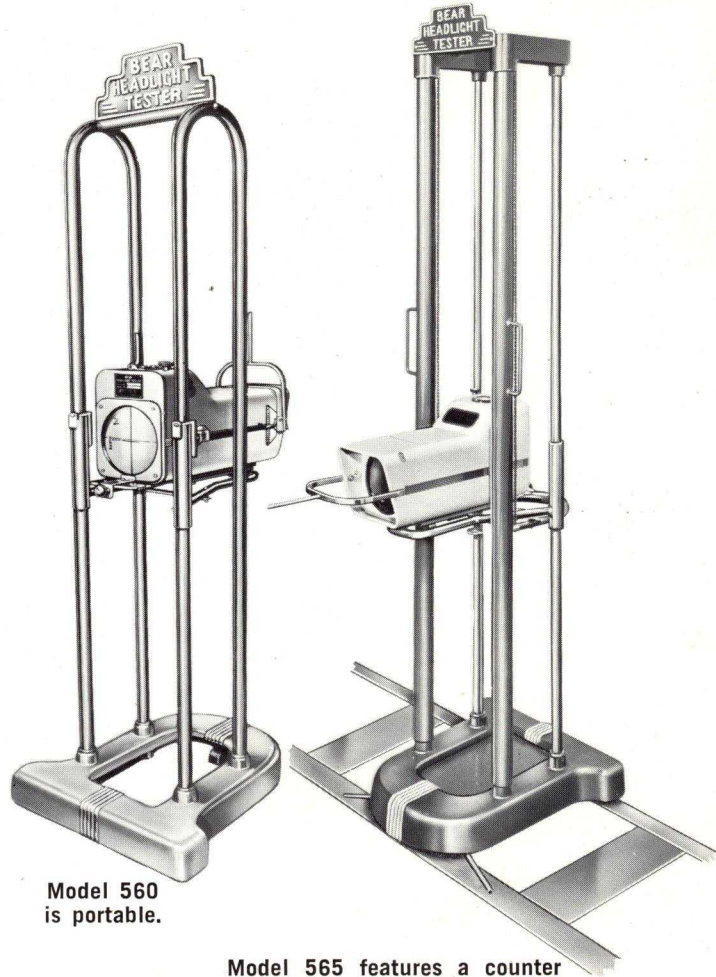
SPECIFICATIONS

MODEL 560: Height 5 feet; Width 24 inches; Meter Capacity 50,000 candlepower; Testing Range Height 12 to 48 inches.
SHIPPING WEIGHT 120 POUNDS

MODEL 561: Height 5 feet; Width 24 inches; Meter Capacity 50,000 candlepower; Testing Range Height 12 to 48 inches; Track 10 feet by 14 inches.*
SHIPPING WEIGHT 185 POUNDS

MODEL 565: Height 70"; Width 24"; Meter Capacity 50,000 candlepower; Testing Range Height 12 to 60 inches.
SHIPPING WEIGHT 255 POUNDS

561 and 565 safety headlight models equipped with self-cleaning and self-aligning V-type track. (Can be installed on surface instead of flush with floor if desired.)



Model 560 is portable.

Model 565 features a counter balance lift which provides easy and fast up and down positioning of tester to headlights.

SPECIFICATIONS

Models No. 240 (Surface) and 241 (Flush) for passenger cars and light trucks

Overall Length 127"
Overall Width 28"
Tower Height 50"
Gauge Capacity for Side Slip 110' In

Capacity Per Axle 32,000 Lbs.
AVAILABLE WITH EITHER LEFT (AS SHOWN) OR RIGHT HAND TOWER

SHIPPING WEIGHT 350 Lbs.

Heavy Duty Universal

Model No. 230 (Surface) and No. 231 (Flush) for all vehicles

Overall Length 141"
Overall Width 30"
Tower Height 50"
Gauge Capacity for Side Slip 110' In

Capacity Per Axle 32,000 Lbs.

AVAILABLE WITH EITHER LEFT OR RIGHT HAND TOWER
SHIPPING WEIGHT 425 Lbs.



SAFETY INSPECTION EQUIPMENT

PLATFORM TYPE BRAKE TESTERS

Approved for use with P.M.V.I. legislation in states where brake testing equipment is required and specified.

Performance Test Function

The platform-type drive-on Brake Machine tests performance of vehicle service brakes for balance and braking force. Test results are based on U.S. Standards Institute requirements.

Purpose

To duplicate road-test conditions "in-the-shop", faster, safer, with uniformity and accuracy difficult to obtain—or measure—on the road consistently because of traffic, changing weather conditions, road surface variances and grades. To remove individual interpretation of braking performance and to show the motorist any performance malfunction.



MODEL 450W for passenger cars and light trucks

Description

Four mesh-topped steel platforms move on steel rollers, activating hydraulic cylinders as the vehicle decelerates. Each platform operates independently, transmitting amount of braking force to the brake test tower. Readings are recorded in hundreds of pounds of braking effort, duplicating road tests of stopping car in 25 feet at 20 miles per hour. Left and right wheel readings indicate brake force balance.

Operation

Vehicle is driven onto test pads at 4 to 8 miles per hour and brakes are applied. All four wheels are tested simultaneously.

SPECIFICATIONS

Model 450W for Passenger Cars and Light Trucks

Width of Runways—30"; Length of Runways—6' 0"
Height of Runways—1 $\frac{5}{8}$ "; Distance Between Runways—34"
Overall Length, Surface Type—18' 0"
Overall Width Across Both Runways—7' 10"
Overall Width Including Cabinet—11' 2"
Cabinet Dimensions, including base—11" wide, 25" deep, 58 $\frac{1}{4}$ " high
Runway Surfaces covered with $\frac{3}{4}$ " mesh of 13 gauge steel
Capacity of Machine is 8,000 pounds per axle
Capacity of each hydraulic gauge is 3,000 pounds of braking force
Shipping weight—1,780 lbs.

Heavy Duty Universal Model No. 4505 (Surface) and No. 4506 (Flush) for All Vehicles

Width of Runways—3'; Length of Runways—12' 8"
Height of Runways—1-15/16"; Distance Between Runways—32"
Overall Length, flush type—29' 7"; Surface type—32' 5"
Overall Width across both Runways—8' 8"
Overall Width including cabinet—12' 8"
Cabinet Dimensions—12" wide, 22" long, 62" high
Runway Surfaces covered with $\frac{3}{4}$ " mesh of 13 gauge steel
Capacity of Machine is 32,000 pounds per axle
Capacity of each hydraulic gauge is 6,000 pounds of braking force
Shipping weight—3,934 lbs.

TOOLS AND GAUGES

6D MAGNETIC TOE and CENTERING GAUGE

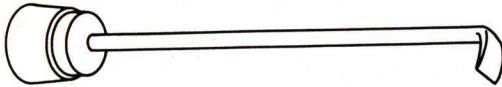
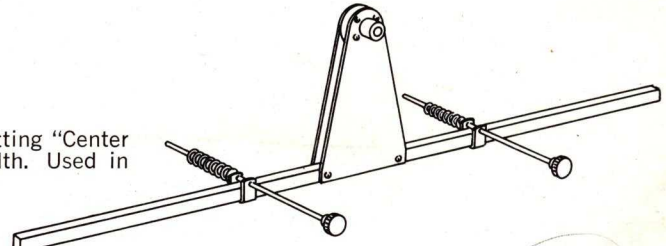
A precision gauge for checking "toe" measurements and setting "Center Point Steering" on all cars. Adjusts to standard tread width. Used in combination with two 27 Magnetic Gauges.

6D Service includes:

| No. | Part Name |
|-------|------------|
| 19125 | Gauge Unit |
| 19127 | Gauge Unit |

| No. | Part Name |
|-------|------------------------|
| 21295 | Self-Alining Gauge Bar |
| 21460 | Center Steering Gauge |

Shipping Weight 17 lbs.



X334 HUB CAP TOOL

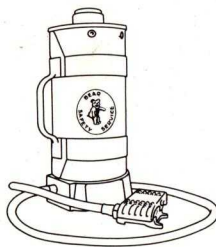
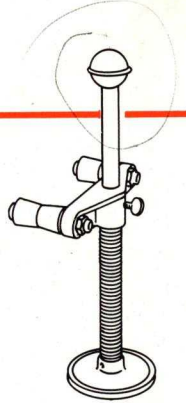
High carbon, heat treated steel tool with rubber padded lead head and sharpened hook permits fast, safe removal and replacement of wheel rings, hub caps, grease retainers, chrome strips, door upholstery panels, etc.

Shipping Weight 2 lbs.

17 STEERING WHEEL HOLDER

Prevents wheel from turning while toe-in and other adjustments are being made. Rubber cushioned arms clamp steering wheel with spring-loaded pad wedging on front seat cushion. For cars and trucks.

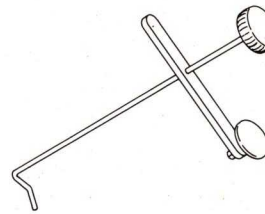
Shipping Weight 5 lbs.



AJ2 AIR JACK

Lightweight aluminum alloy jack. Two jacks have combined lifting capacity of three tons at 175 lbs. air pressure. Convenient valve control. Collapsed height of Jack 11½" — total extended height, 16½" — ram stroke 5".

Shipping Weight 44 lbs. (1 pair)



8 PEDAL DEPRESSOR

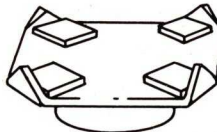
Holds brake pedal depressed on cars and trucks—pad rests against seat securely held by leverage arm. Aids one-man testing and correction work.

Shipping Weight 5 lbs.

19609 JACK ADAPTER

Slips over head of jack to provide greater bearing surface on suspension arms. Fits both Bear hydraulic and air jacks.

Shipping Weight 1 lb.



RADII CONES

Hardened steel cones of various diameters for adapting wheels to balancers.

36-16532 — Set for 33 or 36 Balancer.

330-16533 — Set for 330 Balancer.

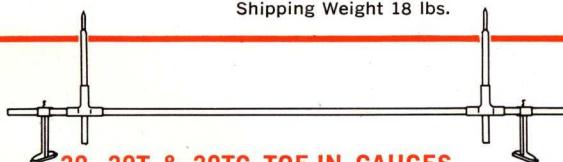
Shipping Weight, per set, 6 lbs.



22972 DRIVE-ON MIRROR

Convex mirror 30 inches by 20 inches provides a complete view for the man driving on and off the rack. Both front wheels, the two runways and side of vehicle can be easily seen. Unit comes complete with mounting attachments for installation on alignment cabinet or wall.

Shipping Weight 18 lbs.



20, 20T & 20TC TOE-IN GAUGES

Used for checking toe-in with 30 Tire Scriber from scribed line on tire. Operating principle simple and fast, checks both front and rear wheels.

20 for passenger cars. Shipping Weight 13 lbs.

20T for trucks and buses. Shipping Weight 20 lbs.

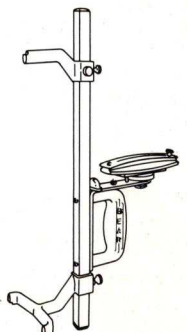
20TC for extra wide trucks. Shipping Weight 20 lbs.

21 & 21-T CASTER, CAMBER, KINGPIN GAUGES

Easy-to-use Gauge for fast, precision checking of caster, camber and kingpin inclination angles. 21 for passenger cars and light trucks.

Shipping Weight for 21 — 5 lbs.

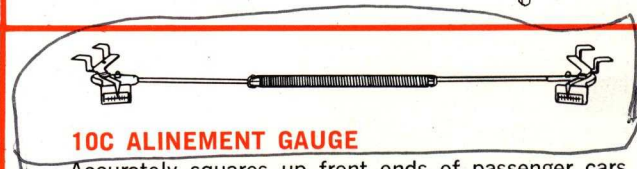
Shipping Weight for 21-T — 10 lbs.



10C ALINEMENT GAUGE

Accurately squares up front ends of passenger cars and light trucks for tracking measurements. Determines correct relationship between independent suspension wheels and intermediate steering arm. May be left in position while corrections are made. Swivel joint on one end permits easy placement and holds gauge securely during axle correction Template included.

Shipping Weight 20 lbs.

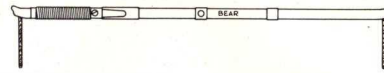


TOOLS AND GAUGES

63 CAR LEVEL GAUGE

Telescoping rod adjusts to any car tread width, includes bubble level to level car prior to alignment checking and correction.

Shipping Weight 2 lbs.



22 TOE-IN GAUGE

Place gauge in position at front of front wheels—roll car forward and read dial in fractions of inch for accurate toe reading.

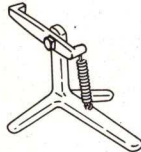
Fed. Stock No. 5210-473-7106

Shipping Weight 5 lbs.

30 TIRE SCRIBER

Used for scribing hair line mark on tire for checking toe from tire centers. Spring loaded, self-adjusting.

Shipping Weight 2 lbs.



55 BALL JOINT CHECKER

A new Gauge designed to give fast, accurate readings of ball joint tolerances according to published AMA specifications. Provides radial, axial and run-out inspections. Can be used on all ball joint suspensions. Roller and dial can be adjusted to either horizontal or vertical position.

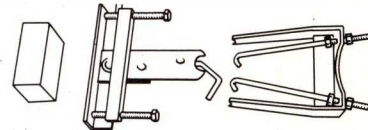
Shipping Weight 8 lbs.



22136 CASTER-CAMBER TOOL

An easy-to-install tool for fast, accurate correction on 1962-65 Ford Fairlanes and 1962-63 Mercury Meteors. Gives you control of upper arm action for accurate use of alignment gauge readings without over correction.

Shipping Weight 10 lbs.



22940 CASTER-CAMBER TOOL

An easy-to-install tool for fast, accurate correction on 1965-66 Ford Mercury. Gives you control of upper arm action for accurate use of alignment gauge readings without over correction.

Shipping Weight 3 lbs.



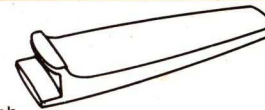
CB-1 & CB-2 COIL BLOCKS

Used between upper suspension arm and frame for ball joint checking and replacement.

CB-1 for Ford Falcon.

CB-2 for Chevy II.

Shipping Weight 1 lb. each.



172 & 170 WHEEL STANDS — 16" and 8"

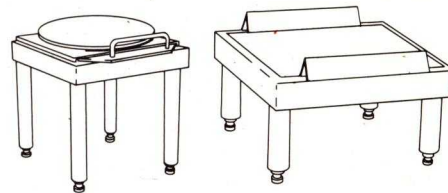
Used for alignment correction operations to allow ample working space and level car. Heavy steel legs assure rigidity with leveling screws in each leg to permit easy adjustment. Set of four stands—front stands hold Turning Radius Gauges—rear stands have stops to prevent rolling. Gauges not included.

170—8" high for use with floor jack—Shipping weight 82 Lbs.

171—Same as 170 with front shelf for Projectoe—Shipping weight 92 lbs.

172—16" high for use with hydraulic lift—Shipping weight 90 lbs.

173—Same as 172 with front shelf for Projectoe—Shipping weight 100 lbs.



8230A & 8233 BALL JOINT SOCKET SETS

Specially made for easy removal of ball joints.

8230A Set of three for Chrysler products.

8233 Set of three for Olds F-85, Buick Special and all other Buicks.

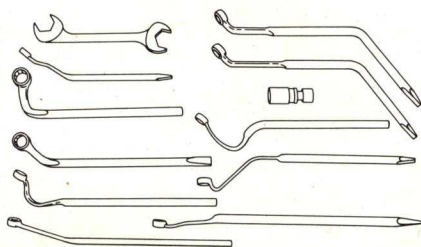
Shipping Weight 4 lbs. per set



8222 ALIGNMENT WRENCH SET

A set of 12 wrenches for current model vehicles specially designed for hard-to-get-at caster, camber corrections of ball joint suspensions with shim adjustment.

Shipping Weight 10 lbs.



8214 & 8215 TIE ROD TOOLS

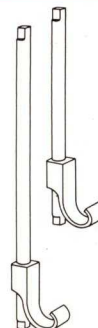
Sharpened edge fits into the tie rod adjusting sleeve slot and pressure on handle loosens sleeve for easy operation. Hook slides on handle to permit a full turn.

8214 for Compacts.

8215 for Passenger Cars and Light Pick-up Trucks.

Shipping Weight 1 lb. each.

Fed. Stock No. 5210-761-0392



TOOLS AND GAUGES

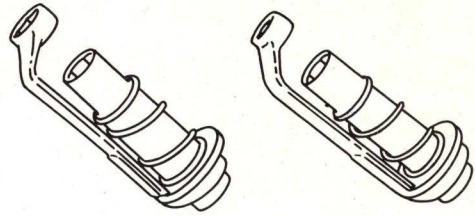
8225 & 8226 TIE ROD TOOLS, 1/2" and 9/16"

Quickly loosens or tightens threaded bolt in tie rod sleeve. Eliminates use of two wrenches. Tool installs on sleeve locking bolt and with ratchet, nut may be loosened or tightened.

8225 — 1/2"

8226 — 9/16"

Shipping Weight 1 lb. each.



44 TURNING RADIUS GAUGES

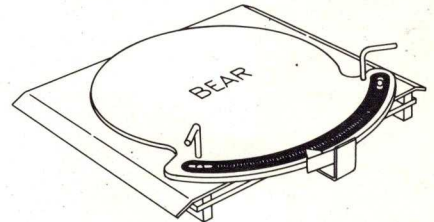
Full-floating action plates used as turn tables for alinement check and for measuring degree of toe-out on curves or angle of turn for each front wheel. Has pointer and dial graduated in degrees. Plates rotate and move laterally and horizontally simultaneously to compensate for changes in caster and camber when wheels are turned. Use on racks, wheel stands or floor track.

44 Set of two with V-bar mounts. Shipping Weight 110 lbs.

44F Set of two without V-bars for floor use. Shipping Weight 95 lbs.

44T Set of Heavy Duty Plates for trucks and buses. Shipping Weight 215 lbs.

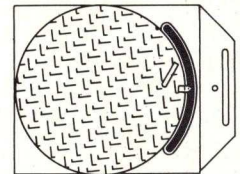
Fed. Stock No. 5210-529-1204



41 TURNING RADIUS GAUGES

Compact, semi-floating gauges, similar to the 44 but lighter weight. Use with 172 and 170 Wheel Stands or on floor, rack or floor track.

Set of two. Shipping Weight 52 lbs.

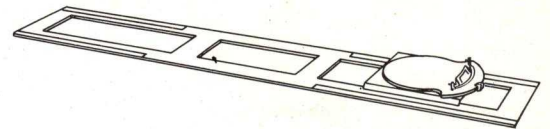


4500 & 4500A TURNING RADIUS GAUGE TRACKS

Floor track positions two turning radius gauges and adjusts to any tread width. Can be left in permanent location or easily moved.

4500 for use with 44 Turning Radius Gauges. Shipping Weight 40 lbs.

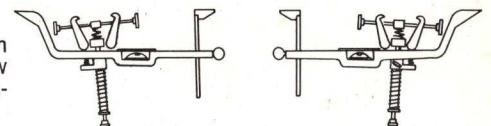
4500A for use with 41 Turning Radius Gauges. Shipping Weight 22 lbs.



68 TORSION BAR HEIGHT GAUGES

Set of Gauges essential for checking height and making adjustments on torsion bar front suspension members. Direct reading gauges show heights of each side to make possible accurate adjustment to car factory specifications.

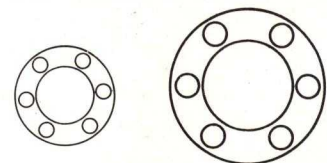
Shipping Weight 6 lbs.



27-20053 MAGNETIC GAUGE ADAPTERS

Set of two for use with 27 Gauge. Small adapter for Corvair, Falcon, Valiant and Comet hubs. Large adapter clears large washer on Chevrolet.

Shipping Weight 3 lbs.

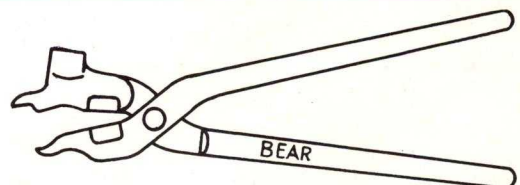


15 ALINEMENT GAUGE

A precision alinement gauge for trucks and buses, similar to the 10C. 15T Extra Long available for extra wide tread widths.

Fed. Stock No. 5210-132-5690

Shipping Weight 55 lbs.



X333 WEIGHT REMOVER

Jaw point is inserted between clip and rim — a slight downward pressure and weight rolls off. Incorporates a weight cutter and hammer. Made of high grade vanadium, heat treated steel to give rugged long-lasting service. Cadmium plated — length 11 inches.

Shipping Weight 10 ounces.

FALL in LOVE
with your car again!



PROVING GROUND PERFORMANCE



ENJOY:

SMOOTH SAFE STEERING
ACTION TESTING of wheel
balance is the only way to be
sure of proper alignment.

SMOOTH SAFE RIDING
ACTION TESTING of wheel
balance is the only way to be
sure of a smooth ride.

SMOOTH SAFE BRAKING
ACTION TESTING of braking
power and balance is the
sure way to safe brakes.

SMOOTH SAFE POWER
ACTION TESTING of engine
under all types of conditions
proving conditions
freeway cruising
and all - you will
load - the sure way of
keeping engine hot
new car power.



**WHY DON'T YOU MAKE
A SPACE AGE DATE
WITH A BEAR. TODAY**

There are thousands of "BEARS" in the
YELLOW PAGES and thousands more at places like
your favorite car dealer, garage, service station,
high shop, tire dealer, diagnostic center.



date up your
car for a space age
checkup
Get BEAR. AC
and drive a SAFE

ENJOY

SMOOTH SAFE STEERING
ACTION TESTING of wheel
balance is the only way to be
sure of proper alignment.

SMOOTH SAFE RIDING
ACTION TESTING of wheel
balance is the only way to be
sure of a smooth ride.

SMOOTH SAFE BRAKING
ACTION TESTING of braking
power and balance is the
sure way to safe brakes.

SMOOTH SAFE POWER
ACTION TESTING of engine
under all types of conditions
proving conditions
freeway cruising
and all - you will
load - the sure way of
keeping engine hot
new car power.

The "In
What"

For Finest Diagnostic
SAFETY SERVICE



BEAR is AT the "500" Race

BEAR is ON the P.M.V.I. Lane
PERIODIC MOTOR VEHICLE INSPECTION

**BEAR is IN over 140
DIAGNOSTIC Centers**

**ALL to Make Yours
the Accident that NEVER HAPPENED**

Your automotive safety and pleasure is
our No. 1 concern. So that your car's steer-
ing... brakes... headlights... and engine
power can be certified safe... we have
been developing and building diagnostic
safety test and repair equipment for use
by car dealers... repair equipment for use
stations... diagnostic safety service cen-
ters and state approved P.M.V.I. safety
equipment for over 50 years.

To have your car checked periodically
bumper-to-bumper... is just good logic.
To drive your car in top operating condi-
tion is the only smart way to drive...

from an economy standpoint... a fun stand-
point... and most important of all... from a
safety standpoint. A car that is operating
with new car performance is your best
guarantee that yours will be the Accident
that NEVER HAPPENED!

Look for the BEAR SIGN
...you'll find it in
THE YELLOW PAGES
...and nearly every-
where cars are serviced.



Precision Proved for 35 years at the "INDY" 500
Officially Approved by every state with P.M.V.I.
© Published in behalf of Bear Service Shops everywhere by the World Leader in Auto-
motive Safety-Service Test Equipment. BEAR MFG. CO., Rock Island, Ill., U.S.A.

LIFE

LOOK

McCall's

POST

no

1

in

training & identification

® 1968 Bear Manufacturing Company



ILLUMINATED ELECTRIC SIGN — 4' x 6'

Made of strong durable Plexiglas and aluminum with brilliant interior illumination by 4-72" high intensity fluorescent lamps. The lustrous Plexiglas faces feature deep embossing and debossing for 3-dimensional beauty. Mast arms and center poles are not included — consult your local sign erector for assistance in mounting your sign. 110 volt system. U.L. and Union Shop approved.

DEALER NAME APPENDAGE

Personalized identification panel is available as an illuminated appendage for mounting below this sign or above the center pole mounted sign. Size of panel is 12" x 6". A non-illuminated metal appendage is also available for similar mounting.

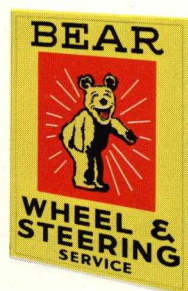
AS-1A — 12" x 6' illuminated panel.

AS-1B — 12" x 6' non-illuminated metal panel.

AS-1 — double faced center pole mount.

AS-2 — double faced hanging mount

AS-3 — single faced wall mount.



AS-11 WALL MOUNT SIGN

Single faced wall mount sign, same design as AS-9, with nine copy choices. Painted three colors on 26 gauge steel in baked enamel with protective coating. Hardware furnished. Check chart for copy to fit your service.

AS-11 — 30" x 40" Single Faced Wall Sign



AS-9 HANGING SIGN

Vertical hanging sign, painted in three attractive colors in finest hi-bake enamel, further protected with clear coatings. Box type construction with 3 1/2" filler box available either as a swinging hanging sign or as a rigid mount. Hardware and brackets furnished. Both types are available with choice of nine letterings — Check chart for copy to fit your service. Made of 20 gauge steel.

AS-9 — 30" x 40" Hanging Sign (swinging) — double faced

AS-9R — 30" x 40" Rigid Mount Hanging Sign double faced



AS-10 HANGING SIGN

Double faced, hanging sign, made of 20 gauge steel, painted 3 colors in baked enamel with clear coating. Flat metal, no box or filler with hanging fixture furnished. Same message both sides on vertical sign with nine copy choices — check chart for copy to fit your service.

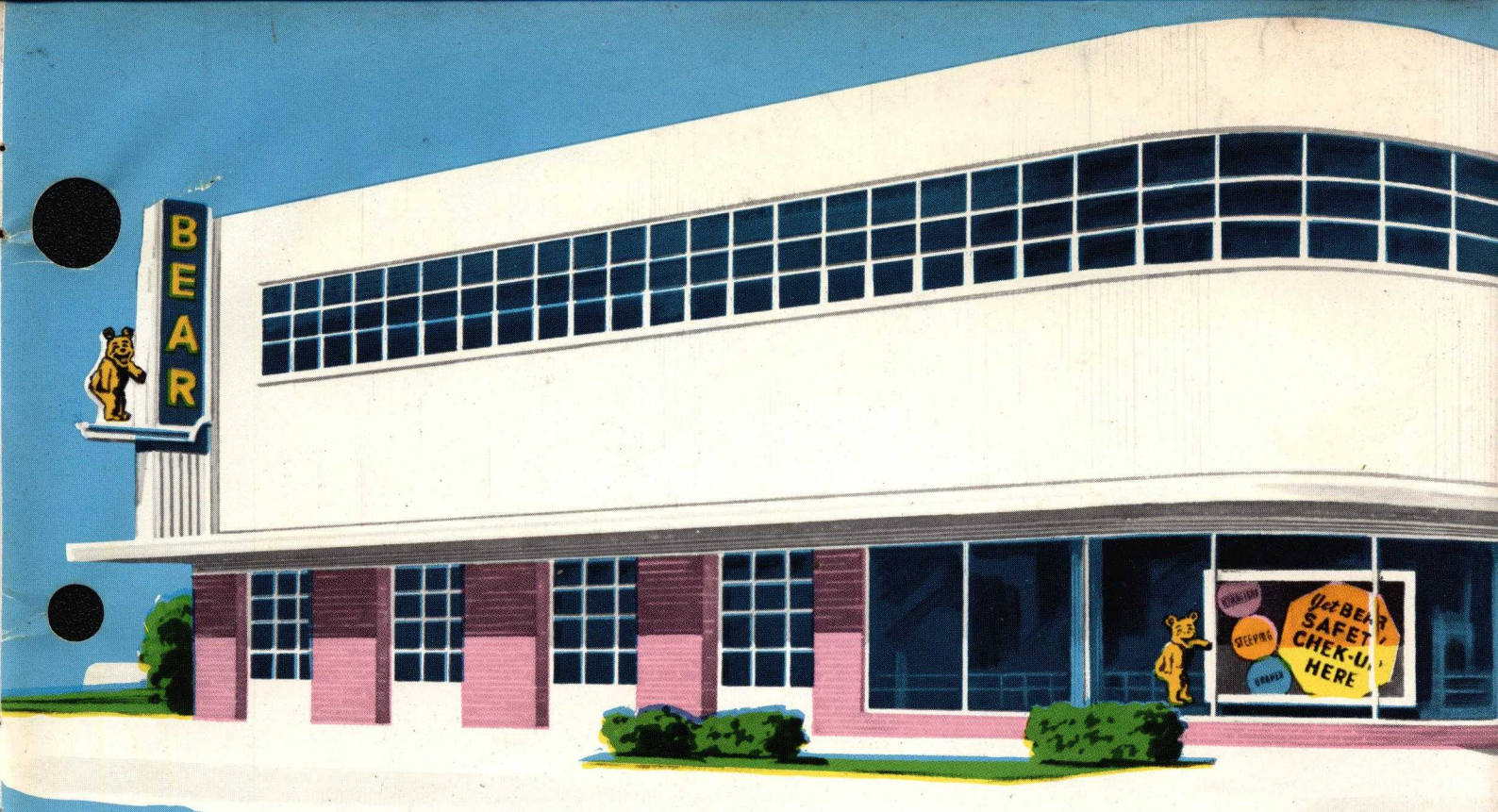
AS-10 — 30" x 40" Double Faced Sign



AS-12 SIDEWALK SIGN

Sturdy, box type constructed sidewalk sign, 30" x 40". Painted three colors — baked enamel with clear coatings — with interchangeable copy. Base and braces must be bolted on. Hardware included. Check chart for copy to fit your service.

AS-12 — 30" x 40" Sidewalk Sign — Double Faced



Bear extras in action...

The Newly Enlarged, World Famous BEAR School is a licensed institution with a complete operating

Trained Competence in the Techniques and Use of Equipment vital to Customer Satisfaction and your Business Success. It offers much more--there's NOTHING to COMPARE with it.

1. THE MILLION DOLLAR BEAR SCHOOL in Rock Island, Illinois . . . now has a complete, fully operating Diagnostic Training Center in action to train operators and technicians in this exciting new diagnostic concept in automotive service. Fully accredited courses are available in wheel alignment, wheel balancing, brake repair, frame and axle straightening, body repair, safety inspection, and Dynamometer Testing.

2. BEAR FIELD SCHOOLS — Held in all sections of the country by Bear Factory Technicians, Alignment, Body-Frame, Brake Repair—full training courses are offered. You can find out if you should add a specific service before you make the investment.

3. BEAR ON-THE-JOB TRAINING — A part of the Original Installation Supervision and Service is TRAINING of your personnel in the operation of Bear Equipment . . . not just in "How to Operate" but in "How to Correct" and "How to Sell."

4. BEAR TECHNICAL BULLETIN SERVICE — The Most Complete Library of Information available for technicians. Constantly supplemented and kept up-to-date through frequently issued Bulletins.

5. BEAR "LINE-UP" — Published six times free subscription to every purchaser of Bear. Contains Stimulating Ideas on Advertising . . . Advertising, as well as Technical "Question and Answer" Columns on service problems, etc. Case Reports of Successful Bear operators give you latest ideas on profitable installation and use of Bear Equipment.

6. THE BEAR "500" RACE CLUB — Open to anyone who owns or operate Bear fully equipped shops. Membership includes many privileges, including Official Inspection, uniforms, Confidential Advance Dodge racing events, technical developments . . . this is the only club for the top technicians of the Wheel Service Industry. Providing advanced know-how as well as the prestige of membership.

7. BEAR ON-THE-JOB CONTINUOUS ATTENTION — Last, but far from the least, is the PERSONAL attention of your local Bear representative who is TRAINING you in the BEAR SCHOOL TO RENDER ALL NEEDED TECHNICAL SERVICE not just at the time of your purchase but in and year out. Your success is his personal goal as long as you are a user of Bear Equipment.



SCHOOL is a fully accredited, state
Diagnostic Training Center.

ment is
BEAR
it!

a year . . .
Equipment.
Merchan-
d Answer"
Studies of
s for profit-

to all who
Membership
insignia, de-
Sheets on
s is a Club
dustry, pro-
prestige of

ENTION —
INTEREST
ED AT THE
TECHNICAL
e, but year
concern for





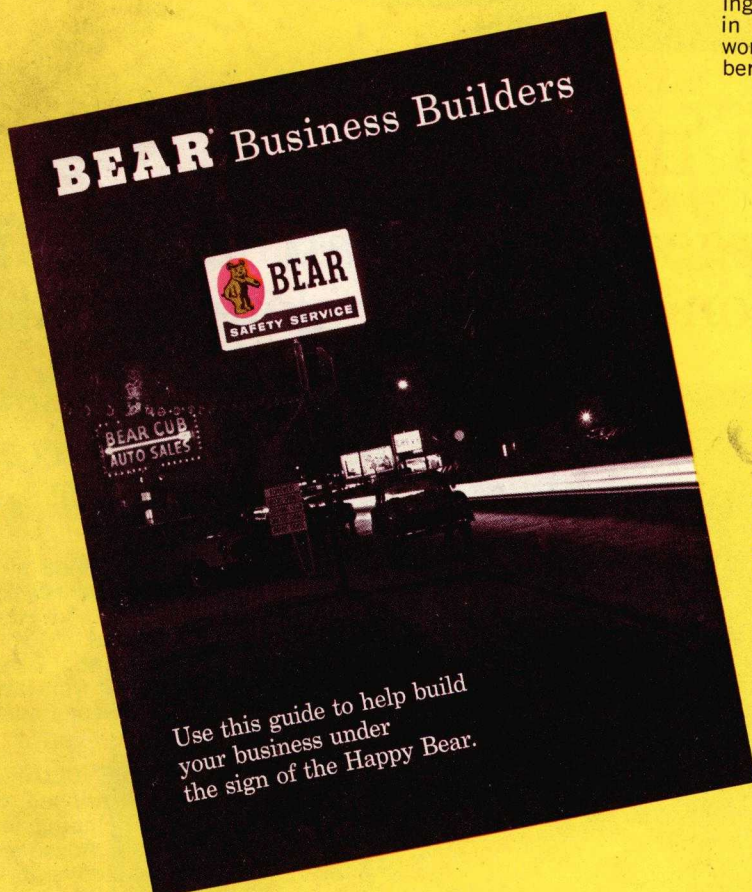
**BRILLIANT SOUND/COLOR
MOVIE and T.V. FILMS!**



**EXCLUSIVE "500" CLUB
FOR QUALIFIED SHOPS!**

"500-MILE" RACE

Since 1930 Bear has been "Official Service" at the famed Indianapolis "500-Mile" Race. The large Bear Garage at the track offers wheel alignment, balancing and frame correction for all of the cars entered in the "500." Bear's part at the "500" has won world-wide recognition. Bear also serves major rubber companies tire testing at the track.



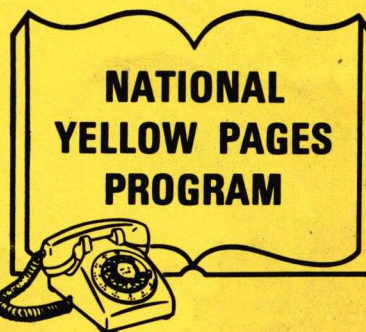
Use this guide to help build
your business under
the sign of the Happy Bear.

BUSINESS BUILDER BOOK

Bear purchasers find that they buy more than "just equipment." With each type of Service, Bear offers a complete profit program that gives you the materials and methods to BUILD A PROFITABLE BUSINESS for years to come. Bear Profit Programs tell you how to advertise your business, many proven ways to get customers, how to make appointments, how to follow-up and schedule jobs for maximum profits. Ask for a free sample "Business Builders" Book.

NATIONAL CONSUMER ADVERTISING

Millions of motorists recognize and respect the Bear Safety Service Sign.
LIFE, LOOK, McCALL'S, POST
Give your business a boost . . . a big no cost extra for you. A national Yellow Pages program adds more selling power.



AT THE
INDIANAPOLIS '500'
IT'S



BEAR[®]

DIAGNOSTIC SAFETY SERVICE

Precision Proved for 35 years at the "Indy" 500

Officially Approved by every state with P.M.V.I.



BEAR Manufacturing Company

Rock Island, Illinois 61201

Phone (309) 788-9311